The #1 Source of Electronic Components for Inventors, Hobbyists & DIYers

Electronic Components
Test & Measurement
Computer Products

@ HOME
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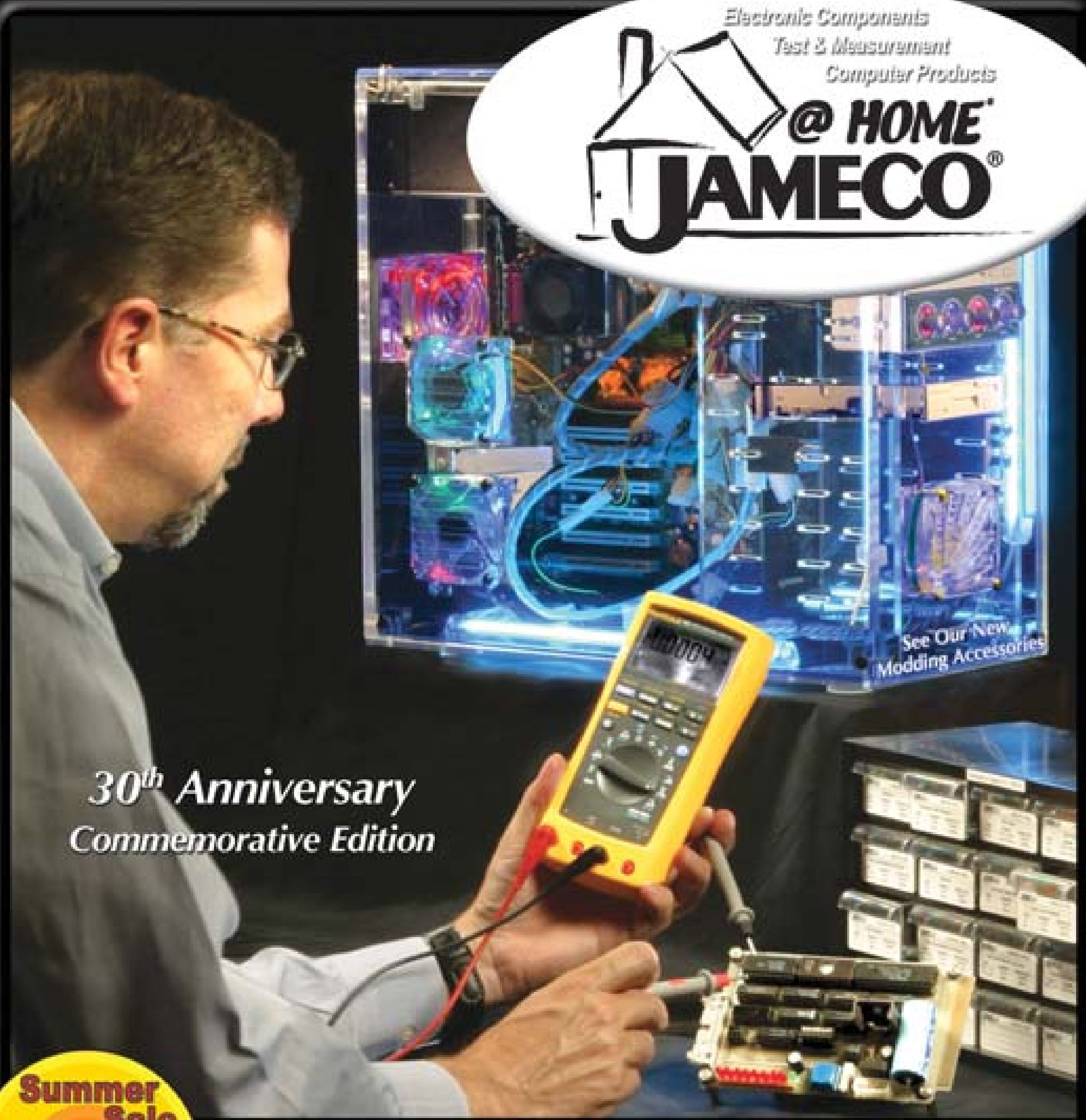

See Our New Modding Accessories

30th Anniversary
Commemorative Edition

Summer Sale
Look Inside for Savings up to 45% OFF!!

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Summer 2004 Volume 643

Wireless freedom, RF reliability, rechargeable convenience!

Looking for the perfect desktop mouse? Memorex has engineered this 5-button gem to combine the most-requested features into one brilliant product. USB and PS/2 connectivity makes installation a snap. Three of the buttons are programmable to simplify repetitive tasks, and the RF link and optical laser tracking technology ensure precise cursor control within a six-foot range. And when you're not working, the included desktop dock keeps the rechargeable batteries topped-off and ready for your next session!

Part No.	Description	Price
265447EX	Wireless RF optical mouse	$29.95

Computer products on pages 66-80

Turn your mild-mannered PC into "SuperMod"!

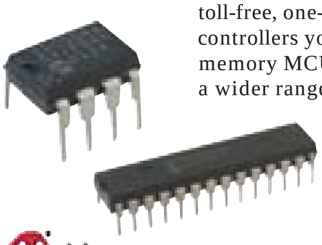
More modding products on pages 74-75

You'll be the life of the LAN party with this see-through sensation! Why settle for a small side window, when you can show off every square inch of your PC's interior? Kit assembly is easy (and fun!), and the result is an eye-catching desktop masterpiece in clear acrylic. There's plenty of space for your gear: five exposed 5.25" drive bays, seven 3.5" drive bays (two exposed), and five 80mm fan positions. Add your power supply, ATX motherboard, drives, custom lighting, cabling and fans, and you'll be the proud owner of the most unique and classy PC ever!

Part No.	Description	Price
285448EX	ATX clear acrylic computer case	$84.95

Take Your PIC! Announcing the Broadest Line of Microcontrollers We've Ever Offered!

You asked for more PIC MCUs, and we heard you loud and clear! In this catalog, we've added 150 more microcontrollers from Microchip, the #1 MCU supplier in the world. Our experts have improved this newly-expanded area to provide a versatile foundation for your designs, including the most-needed components with the most-requested features!



MICROCHIP

We'll continue adding new MCUs with each new catalog, with the goal of bringing you toll-free, one-stop access to all the microcontrollers you need. That means more flash-memory MCUs, more package varieties, and a wider range of features and capabilities. And as always, Jameco provides unparalleled tech support, 99% in-stock inventory, and our low-price guarantee to ensure that our customers always get the best deal on the best products.

Receive the best in antennas, from Jameco and Channel Master!

In this catalog, Jameco launches an all-new section of high-performance, commercial-grade antennas and accessories from the premier manufacturer in the field, Channel Master!

Our HDTV/Digital/Analog Antenna meets your changing reception needs by providing outstanding performance for both digital and analog broadcast signals. The FM Dipole Antenna is perfect for FM Dx'ers and audiophiles, with the gain and directivity to pull in marginal stations for pure, clear stereo sound. For less-demanding applications, our VHF dipole "rabbit ears" antenna packs sensitivity and quality into an easy-to-install solution!

HDTV/Digital/Analog

See page 62 for the entire selection listing.

Note to self: Don't pass up these sleek, versatile USB voice recorders!

237198EX

Stop your shopping, you've found the perfect digital recorders for meetings, classes, interviews, conference calls or any number of other applications. They're pocket-sized, and feature sound-activated recording, auto-search, and highly visible LCD and LED status displays. There are two models to choose from: 285499EX records up to 4 hours (LP) of audio, filed in 396 separate messages; 237198EX records up to18 hours (LP) filed in 396 separate messages (see page 68 for details). Complete in the package, you get an external microphone, earphone, telephone adaptor, PC software and USB cable. Even the batteries (2 AAAs) are included!

Part No.	Description	Price
285499EX	Digital USB voice recorder, 2-4 hrs	$89.95
237198EX	Digital USB voice recorder, 9-18 hrs	129.95

The perfect solution for DIYers, hobbyists and inventors.

NTE

Jameco is proud to now offer NTE's top replacement components. Each NTE component is designed to replace many industry standards, including some that are hard-to-find. NTE components are ideal for a variety of design and repair applications, and with their wide operating specifications, there is less chance of encountering incompatibilities with other devices. The bottom line: less frustration, time saved, products repaired.

As an authorized NTE franchise distributor, we now have a direct line to this outstanding provider of high quality, broad tolerance products. Go to pages 10-12 for a selection of logic and linear ICs, voltage regulators, varistors, LEDs, transistors, rectifiers, diodes, thermal fuses and more. And if you don't find what you're looking for, be sure to visit www.Jameco.com and look for our complete line of NTE products.

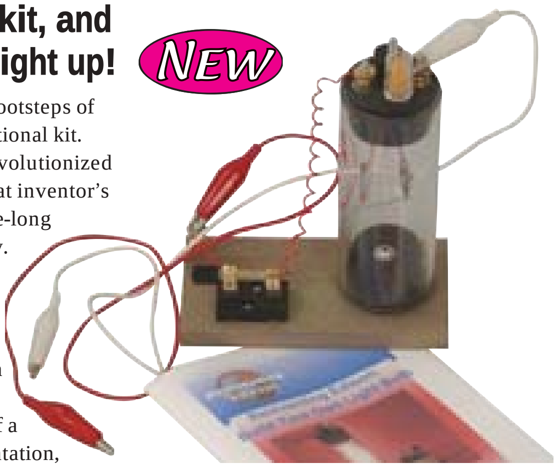
Service Is Key!

SERVICE YOU CAN TRUST

To be your #1 source, we know service is important. That's why we're available 24/7, offer friendly, knowledgeable technical support, and ship all orders on the same business day when placed before 6 PM EST. We hope you'll continue to reap the benefits Jameco offers.

Order this lightbulb kit, and watch a kid's eyes light up!

NEW



Junior scientists can walk in the footsteps of Edison with this hands-on educational kit. The invention of the light bulb revolutionized the world, and recreating the great inventor's thought process could spark a life-long interest in science and technology.

The included booklet and kit components provide a complete learning experience, from basic electricity to the effects of vacuum and different filament materials. Whether as a gift or as the basis of a prize-winning Science Fair presentation, this kit is the perfect choice for "bright" kids! Plus, the refurbishment pack (available separately) includes all materials needed to reuse the kit, again and again!

Part No.	Description	Price
285595EX	Build your own lightbulb kit	$54.95
285616EX	Refurbishment pack for kit	14.49

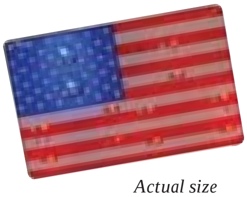
Attention teachers and group leaders: Multi-packs of this kit are available for classroom use, complete with a valuable teacher's guide. Call today for details and special pricing!

Flashing LED American Flag

NEW

This old glory is attractive with or without the 12 flashing blue and red LEDs which simulate a flying flag. Magnetic clip attaches to the pocket or lapel of your shirt without creating a hole in your clothing.

Part No.	Description	Price
286969EX	Flashing flag (1.2"W x 0.8"H)	$3.99



Actual size

See detailed Product Index on pages 100 & 101

PRICES

Prices are effective 7-12-04
Prices and discounts are subject to change without notice.

Jameco Celebrates It's 30th Anniversary!

Dennis, James & Jake Farrey

Jameco Electronics first started it's electronic distribution business in August 1974. Dennis Farrey named it after his son James and dedicated himself to bringing customers great values in electronic components.

30 years later, we're still committed to being your number one source of electronic components for the inventor, hobbyist and DIYer. Much has changed in that time, but we still hold to the same virtues we first established. The committment to provide you with a wide selection of quality products, the best prices and great service. In fact, you'll find over 1,400 new products just added to our web site at www.Jameco.com.

James has since grown up and is the Sales Manager for Jameco. He is dedicated and highly motivated to satisfy all of our customer's needs. He now has his own son, Jake, and is preparing to instill the same values and sense of commitment his father taught him. Yes, technology has significantly changed in the last 30 years, but the Farrey family continues to march to the consistent beat of value and commitment.

At Jameco our goal is to provide you with more of what you want at unbeatable prices. Let us know how we can better serve your electronic component needs as an inventor, hobbyist or DIYer. Please send requests to AtHome@Jameco.com.

Summer Sale—It's Too Hot To Miss!

Interested in saving 15 to 46% off our already low prices? While supplies last, we're offering these dramatic discounts on many of our @Home products. So whether you want to install home automation equipment or purchase binoculars and electronic compasses for your summertime hiking, be sure to thumb through this catalog. To find these substantially discounted items, just look for the Summer Sale mark throughout this catalog. Each includes the amount you'll save off our already low prices.

@ Home's Latest Additions

We continue to expand our offering into new areas. Are you planning to invest in High-Definition Television (HDTV)? Did you know most HDTV signals are broadcast via the airwaves rather than by cable or satellite? Look on page 62 for Channel Master's superior performance Advantage line of antennas. Then ensure great reception with high-quality Belden coax and F connectors on page 63. We just expanded our selection of modding products as well! Now you can purchase a clear case to show off your cool electronics artwork. Looking to illuminate your fans without replacing them? Be sure to check out our new LED lit fan grills on page 74.

Just-in-time stocking only at Jameco.

Take advantage of our "just in time" fast delivery. Only Jameco has stocking levels that guarantee 99% in-stock availability! Call any weekday before 6:00 PM EST, and you can be assured you will have it the next day.

Don't get frustrated... find it at Jameco!

Come to Jameco for popular electronic components, computer products, test equipment, and our latest selection of products for your home and personal use; all at unbeatable prices. You can also find those elusive and frustratingly hard-to-find items, and even some out-of-production parts, too! Join the multitudes of happy Jameco customers... You'll be glad you did.

The Color Code Legend... For easy reference we have included this color code legend on every page.

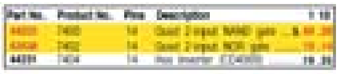
COLOR CODE LEGEND...
NEW SALE REFURBISHED CLOSEOUT

Find New Products Quickly... Look for the part numbers in **magenta**.

NEW

Save on Sale Items!... Sale products are highlighted in yellow and **orange**, so you can identify items whose prices have been reduced in all quantities.

SALE



Last Chance Opportunities... Unfortunately we're not always able to restock certain products. In this case we'll print **blue** part numbers, so if we know there's limited stock, you'll also know.

Part No.	Product No.
155643	DC603F1

Hard-to-Find Products... Some products are no longer produced, and yet we know you need them. That's why we occasionally offer pulled or refurbished products. Pulled part numbers are clearly printed in **purple** and refurbished in **brown**. Each is backed by our standard Jameco warranty.

Part No.	Product No.
25101	MC146818

Jameco's Price Reductions are Substantial... Rest assured your savings are not just numerous. They're significant too! Look for former prices slashed out to the left.

Part No.	Description	1	10	25
199718EA	83-key PS/2	$49.95	$44.95	$38.95
114868EA	84-key AT .... ~~$56.99~~	49.95	44.95	38.95

Jameco's Low-Price Guarantee

We'll match the print advertised price of any like product. It's that simple!

Our Low Price Guarantee Doesn't Get Much Use...

... And we like it that way. We take our Low-Price Guarantee seriously, so we search around the world to identify the sources for the lowest prices for our high-quality products. In fact, we have a team of people dedicated to making sure we have the lowest prices available.

The Jameco Advantage...

Low-Price Commitment

We'll match the printed advertised price of any like product. It's that simple.

Around-the-Clock Ordering

You can call us at 1-800-455-6119 24x7x365 to place your order. Or visit us on the web at www.Jameco.com.

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99% of orders placed by 6 PM EST are shipped the same day, and 99% of our items are in-stock!

Help Avoid Duplicate Catalogs

While we don't intend to send multiple catalogs to the same person, on occasion we do make mistakes. If you're incorrectly receiving multiple catalogs, please visit our web site at www.Jameco.com/DupCats and we'll remove the duplicates. Alternatively, you can mail the duplicate back-covers to us:

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Product Marketing
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Are you tired of loaning your latest copy of the Jameco catalog to a friend or business associate? If they can't take a hint just visit our website at: www.Jameco.com/CatReferral.

We'd be happy to send them a catalog too!

Call for pricing on quantities over 100 – we carry major manufacturers. We will special order any IC – $100 Minimum Order

EPROM

More @ www.Jameco.com/IC

Part No.	Cross Ref.	Pins	Description			1	10
39909EX	2708	24	1k x 8	8kB	450ns (±5V, +12V)	$4.95	$4.25
40002EX	2716	24	2k x 8	16kB	450ns (25V)	3.99	3.59
39706EX	27C16	24	2k x 8	16kB	450ns (25V) CMOS	7.25	6.55
40011EX	2716-1	24	2k x 8	16kB	350ns (25V)	6.49	5.89
114876EX	2732B	24	4k x 8	32kB	450ns (12.5V)	4.15	3.75
33591EX	TMS2532A	24	4k x 8	32kB	450ns (21V)	3.95	3.55
40096EX	2732	24	4k x 8	32kB	450ns (25V)	6.49	5.49
40133EX	2732A-45	24	4k x 8	32kB	450ns (21V)	3.99	3.69
39765EX	27C32	24	4k x 8	32kB	450ns (25V) CMOS	5.49	4.15
40125EX	2732A-25	24	4k x 8	32kB	250ns (21V)	4.99	4.49
40109EX	2732A-20	24	4k x 8	32kB	200ns (21V)	6.49	5.99
40192EX	2764-20	28	8k x 8	64kB	200ns (21V)	5.25	4.75
40205EX	2764-25	28	8k x 8	64kB	250ns (21V)	5.25	4.75
40230EX	2764A-20	28	8k x 8	64kB	200ns (12.5V)	4.49	4.05
40248EX	2764A-25	28	8k x 8	64kB	250ns (12.5V)	3.49	3.15
105304EX	27C64-12	28	8k x 8	64kB	120ns (12.5V) CMOS	6.49	5.99
39829EX	27C64-15	28	8k x 8	64kB	150ns (12.5V) CMOS	3.79	3.49
74608EX	27C64-20	28	8k x 8	64kB	200ns (12.5V) CMOS	4.69	4.29
39845EX	27C64-25	28	8k x 8	64kB	250ns (12.5V) CMOS	4.49	4.09
39933EX	27128-25	28	16k x 8	128kB	250ns (21V)	5.95	5.09
39984EX	27128A-25	28	16k x 8	128kB	250ns (12.5V)	4.49	4.05
39685EX	27C128-25	28	16k x 8	128kB	250ns (12.5V) CMOS	3.99	3.59
39968EX	27128A-20	28	16k x 8	128kB	200ns (12.5V)	4.69	4.19
101101EX	27C128-20	28	16k x 8	128kB	200ns (12.5V) CMOS	4.69	4.29
39950EX	27128A-15	28	16k x 8	128kB	150ns (12.5V)	4.49	3.95
87935EX	27C128-12	28	16k x 8	128kB	120ns (12.5V) CMOS	4.49	3.99
39677EX	27C128-15	28	16k x 8	128kB	150ns (12.5V) CMOS	4.29	3.85
40037EX	27256-15	28	32k x 8	256kB	150ns (12.5V)	3.25	3.09
39722EX	27C256-20	28	32k x 8	256kB	200ns (12.5V) CMOS	2.59	2.49
39731EX	27C256-25	28	32k x 8	256kB	250ns (12.5V) CMOS	3.15	2.95
140476EX	27C256-70	28	32k x 8	256kB	70ns (12.5V) CMOS	3.59	3.39
112740EX	27C256-10	28	32k x 8	256kB	100ns (12.5V) CMOS	3.35	3.15
65904EX	27C256-12	28	32k x 8	256kB	120ns (12.5V) CMOS	2.05	1.90
39714EX	27C256-15	28	32k x 8	256kB	150ns (12.5V) CMOS	2.05	1.75
40168EX	27512-25	28	64k x 8	512kB	250ns (12.5V)	3.79	3.45
131959EX	27C512-10	28	64k x 8	512kB	100ns (12.5V) CMOS	3.39	3.15
39773EX	27C512-12	28	64k x 8	512kB	120ns (12.5V) CMOS	2.09	1.79
39781EX	27C512-15	28	64k x 8	512kB	150ns (12.5V) CMOS	2.09	1.99
39790EX	27C512-20	28	64k x 8	512kB	200ns (12.5V) CMOS	3.15	2.95
39802EX	27C512-25	28	64k x 8	512kB	250ns (12.5V) CMOS	4.75	4.39
203617EX	27C512-45	28	64k x 8	512kB	45ns (12.5V) CMOS	4.09	3.79
203625EX	27C512-70	28	64k x 8	512kB	70ns (12.5V) CMOS	2.89	2.49
175206EX	27C512-90	28	64k x 8	512kB	90ns (12.5V) CMOS	3.45	3.25
118148EX	27C1024-15	40	64k x 16	1024kB	150ns (12.5V) CMOS	5.95	5.55
39651EX	27C010-15	32	128k x 8	1024kB	150ns (12.5V) CMOS	2.59	2.19
74624EX	27C010-12	32	128k x 8	1024kB	120ns (12.5V) CMOS	3.59	3.19
39669EX	27C010-20	32	128k x 8	1024kB	200ns (12.5V) CMOS	2.39	2.29
146149EX	27C010-70	32	128k x 8	1024kB	70ns (12.5V) CMOS	2.39	2.15
78852EX	27C020-12	32	256k x 8	2048kB	120ns (12.5V) CMOS	5.29	4.89
65699EX	27C020-15	32	256k x 8	2048kB	150ns (12.5V) CMOS	5.29	4.99
127933EX	27C4096-12	40	256k x 16	4096kB	120ns (12.5V) CMOS	9.22	8.60
111780EX	27C040-10	32	512k x 8	4096kB	100ns (12.5V) CMOS	6.92	6.41
102293EX	27C040-12	32	512k x 8	4096kB	120ns (12.5V) CMOS	6.59	6.09
85462EX	27C040-15	32	512k x 8	4096kB	150ns (12.5V) CMOS	6.59	6.09
203668EX	27C040-45	32	512k x 8	4096kB	45ns (12.5V) CMOS	12.65	10.75
203684EX	27C080-90	32	1M x 8	8192kB	90ns (12.5V) CMOS	12.91	11.99
156275EX	27C080-10	32	1M x 8	8192kB	100ns (12.5V) CMOS	12.91	10.97
140003EX	27C080-12	32	1M x 8	8192kB	120ns (12.5V) CMOS	12.99	11.99
156283EX	27C160-10	42	2M x 8	16384kB	100ns (12.5V) CMOS	20.45	18.95

See EPROM programmers on page 43

EPROM Accessories

Part No.	Cross Ref.	Description	1	5
66042EX	DE1	UVP portable EPROM eraser, pg **43**	$54.95	$49.95
15712EX	DE4	8-chip UV-EPROM eraser, pg **43**	119.95	109.95

EEPROM

More @ www.Jameco.com/IC

Part No.	Cross Ref.	Pins	Description		1	10
108847EX	24C04P	8	512 x 8	4096-bit serial (CMOS)	$.89	$.79
74691EX	28C16A-25	24	2k x 8	16k 250ns (5V) CMOS	3.99	3.69
74827EX	28C64A-25	28	8k x 8	64k 250ns (5V) CMOS	4.49	4.05
200580EX	24C256-10	8	32k x 8	256k serial (CMOS)	3.19	2.39
74843EX	28C256-15	28	32k x 8	256k 150ns CMOS	8.99	6.89
74878EX	28C256-25	28	32k x 8	256k 250ns CMOS	8.75	7.45

OTP/PROM

More @ www.Jameco.com/IC

Part No.	Cross Ref.	Pins	Description		1	10
48717EX	74S288	16	32 x 8	Tri-state (27S19/TBP18S030N)	$7.35	$6.30
27781EX	N82S129	16	256 x 4	1024-bit PROM tri-state (27S21)	7.95	6.95
27801EX	N82S137	18	1024 x 4	4096-bit PROM tri-state (27S33)	4.95	4.25

Flash Memory

More @ www.Jameco.com/IC

Part No.	Cross Ref.	Pins	Description		1	10
74771EX	28F010-15	32	128k x 8	150ns (12V) CMOS	$6.95	$6.25
74835EX	28F020-15	32	256k x 8	150ns (12V) CMOS	7.95	7.15

Dynamic Video RAM

More @ www.Jameco.com/IC

Part No.	Cross Ref.	Pins	Description		1	10
41339EX	4116-15	16	16k x 1	150ns (MM5290J-1R)	$.99	$.89
128688EX	HM514260	SOJ	256k x 16	70ns	3.39	2.88

Static RAM

More @ www.Jameco.com/IC

Part No.	Cross Ref.	Pins	Description		1	10
114323EX	DS1230Y-150	28	—	256k nonvol., 4.37V WP	$19.95	$18.95
42198EX	5101 ⌘	22	256 x 4	450ns (CMOS)	7.99	7.19
38957EX	2114N	18	1k x 4	450ns (9114BPC)	2.29	1.99
38973EX	2114N-2	18	1k x 4	200ns (9114EPC) (U214D20)	2.49	2.09
38981EX	2114N-2L	18	1k x 4	200ns low power	2.49	2.25
42921EX	6264P-10 ⌘	28	8k x 8	100ns (64kB) CMOS	2.59	2.29
42930EX	6264P-12 ⌘	28	8k x 8	120ns (64kB) CMOS	2.65	2.39
85121EX	6264LP-70	28	8k x 8	70ns (64kB) LP CMOS	3.39	2.99
42884EX	6264LP-10 ⌘	28	8k x 8	100ns (64kB) LP CMOS	2.75	2.49
42892EX	6264LP-12 ⌘	28	8k x 8	120ns (64kB) LP CMOS	2.79	2.49
242721EX	6264-55	28	8k x 8	55ns (5V) CMOS async.	3.29	2.59
82472EX	62256LP-70	28	32k x 8	70ns low power CMOS	5.49	4.99
42833EX	62256LP-10 ⌘	28	32k x 8	100ns low power CMOS	4.19	3.55
42850EX	62256LP-12 ⌘	28	32k x 8	120ns low power CMOS	3.89	3.49
75037EX	ATT7C199P-15	28	32k x 8	15ns high speed CMOS (.3"W)	3.39	2.99
131810EX	628128LP-70	32	128k x 8	70ns low power CMOS	8.99	7.39
157358EX	628512LP-70	32	512k x 8	70ns low power CMOS	18.99	16.99

⌘ Pull

Voice Chips

Single-Chip Voice Record/Playback Devices

10 to 120 Second Durations (28-pin DIP)

- Single voltage operation: +5V (4.5V to 5.5V operating range)
- 100k record cycles (typical)
- 1 µA standby current (typical)

Part No.	Product No.	Description	1	10
141671EX	ISD1110P	Voice record/playback (10 sec.)	$4.29	$3.99
107334EX	ISD1420P	Voice record/playback (20 sec.)	5.39	5.09
120643EX	ISD2560	Voice record/playback (60 sec.)	9.19	8.59
120660EX	ISD2590	Voice record/playback (90 sec.)	9.29	8.69
141655EX	ISD25120P	Voice record/playback (120 sec.)	9.95	9.45

CPUs/MPUs

More @ www.Jameco.com/IC

Part No.	Description	MHz	Socket	1	10
183118EX	Pentium® III processor	600	Slot 1	~~$159.95~~ $117.59	$111.75
183100EX	Pentium® II processor	400	Slot 1	~~$124.99~~ 99.95	94.95
151651EX	Pentium® II processor	300	Slot 1	~~$109.99~~ 89.95	85.45
190060EX	Pentium® II w/ heat sink	233	Slot 1	89.95	79.95
150501EX	Pentium MMX® processor	233	376/PGA	69.95	62.95
140054EX	Pentium MMX® processor ⌘	200	376/PGA	49.95	37.45
130841EX	Pentium® processor	166	296/PGA	49.95	37.45
130833EX	Pentium® processor	133	296/PGA	39.95	29.95
118421EX	Intel 486DX2 processor ⌘	66	168/PGA	19.95	14.96

⌘ Pull

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Zilog 280 MPUs

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Part No.	Cross Ref.	Pins	MHz	Description	1	10
35561EX	Z80 ⌘	40	2.5	CPU (MK3880N/780C)	$1.39	$1.19
35596EX	Z80A ⌘	40	4	CPU (MK3880N-4/780C-1)	1.99	1.79
35781EX	Z84C00-4	40	4	CPU (Z84C0004PEC) CMOS	4.15	3.49

⌘ Pull

UARTs

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Part No.	Cross Ref.	Pins	Description	1	10
27596EX	NS16550AN ⌘	40	Univ. asynch. rcvr./trans. w/ FIFO (PC16550DN)	$5.89	$4.49

⌘ Pull

6500 Series

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Part No.	Cross Ref.	Pins	Description	1	10
43191EX	6502 ⌘	40	MPU with internal clock (1MHz)	$7.95	$6.95
43166EX	65C02 ⌘	40	MPU with internal clock (CMOS)	6.95	5.25
43254EX	6522 ⌘	40	VIA (versatile interface adapter) 1MHz	2.39	2.15

⌘ Pull

6800/68000 Series

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Part No.	Cross Ref.	Pins	Description	1	10
43481EX	6800 ⌘	40	8-bit MCU	$6.95	$5.25
43502EX	6802	40	8-bit MCU with clock and RAM (1MHz)	8.50	7.65
43596EX	6821 ⌘	40	Peripheral interface adapter (1MHz)	3.95	3.59
43414EX	68B21 ⌘	40	Peripheral interface adapter (2MHz)	4.95	4.49
43633EX	6850 ⌘	24	Asynch. comm. int. adapter (ACIA)	2.39	2.09
25363EX	MC68705P3S	28	8-bit EPROM MPU w/ 112B RAM & I/O	24.95	22.95
132484EX	MC68HC705C8S	40	8-bit HCMOS MCU, 8k bytes, EPROM	38.95	34.95
248612EX	MC68HC705P6ACP	28	MCU, OTP 4.5k ROM, 21 I/O A/D	3.95	2.75
248401EX	MC68HC908JB8JP	20	MCU, flash 8k ROM, 37 I/O USB	5.49	5.45
248381EX	MC68HC908JL3CP	28	MCU, flash 4k ROM, 23 I/O, A/D	4.55	4.35
248364EX	MC68HC908JK3CP	20	MCU, flash, 4k ROM 15 I/O	3.75	3.45
248428EX	MC68HC908KX8CP	16	MCU, flash 8k ROM, 13 I/O, A/D	5.65	5.45
248487EX	MC68HC908QT1CP	8	MCU, Flash, 1.5k ROM, 6 I/O	1.89	1.45
248461EX	MC68HC908QT2CP	8	MCU, Flash, 1.5k ROM, 6 I/O, A/D	2.85	2.55
248444EX	MC68HC908QT4CP	8	MCU, flash 4k ROM, 6 I/O, A/D	2.69	1.65
248541EX	MC68HC908QY1CP	16	MCU, Flash, 1.5k ROM, 141 I/O	2.15	1.65
248524EX	MC68HC908QY2CP	16	MCU, flash, 1.5k ROM, 13 I/O, A/D	2.55	1.95
248508EX	MC68HC908QY4CP	16	MCU, Flash, 4k ROM, 13 I/O, A/D	2.89	2.49
191863EX	MC68HC11E1CP2	48	8-bit micro cntl. w/ A/D conv. (512B RAM)	15.95	12.95

⌘ Pull

8000 Series

More @ www.Jameco.com/IC

Part No.	Cross Ref.	Pins	Description	1	10
51844EX	8031 ⌘	40	CPU with 128 x 8 RAM and I/O	$3.29	$2.99
102197EX	8032	40	8-bit MCU 256 x 8 RAM	3.95	3.59
51959EX	8039 ⌘	40	CPU single chip 8-bit (128 bytes RAM)	4.49	3.99
51991EX	8051AP** ⌘	40	MCU w/128x8 RAM	5.49	4.99
52046EX	8080A ⌘	40	CPU 8-bit N-channel (1MHz)	4.49	3.95
52062EX	8085A ⌘	40	CPU 8-bit N-channel (3MHz)	4.99	4.25
52142EX	8088 ⌘	40	CPU 16-bit (8-bit data bus) 5MHz	2.49	2.25
52071EX	8085A-2 ⌘	40	CPU 8-bit N-channel (5MHz)	5.49	4.99
51705EX	80C85	40	CPU 8-bit N-channel (3MHz)(CMOS)	6.95	5.95
52290EX	8155	40	HMOS RAM I/O port/timer (3MHz)	4.49	3.39
52302EX	8155-2 ⌘	40	HMOS RAM I/O port/timer (5MHz)	5.95	5.39
52468EX	8212 ⌘	24	8-bit input/output (74S412)	6.49	5.99
52644EX	8251	28	Prog. comm. I/O (USART)	2.99	2.69
52652EX	8251A ⌘	28	Prog. comm. interface (USART)	3.99	3.69
52687EX	8253-5	24	Prog. interval timer (2MHz)	4.99	4.49
52708EX	8254 ⌘	24	Prog. interval timer (UPD71054)	4.49	3.99
52716EX	8254-2v ⌘	24	Prog. interval timer (10MHz)	7.35	6.65
52409EX	82C54-2	24	Prog. interval timer (CMOS) 10MHz	4.49	3.85
52724EX	8255 ⌘	40	Prog. peripheral I/O (PPI) 71055 (2MHz)	4.49	3.99
52732EX	8255A-5 ⌘	40	Prog. peripheral I/O (PPI) 5MHz	4.89	4.39
52417EX	82C55A	40	Prog. peripheral I/O (PPI) CMOS	4.99	4.49
52425EX	82C55A-5	40	Prog. peripheral I/O (PPI) CMOS (5MHz)	4.49	3.99
52759EX	8256 ⌘	40	Multif. universal asynch. rec./trans.	19.99	17.99
52839EX	8279 ⌘	40	Prog. keyboard/display interface	12.99	11.99
52871EX	8284A ⌘	18	Clock gen. and driver (UPD71084)	4.49	3.99

** Tie pin 31 low to bypass the internal ROM ⌘ Pull

8000 Series (Continued)

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Part No.	Cross Ref.	Pins	Description	1	10
53031EX	8748H	40	CPU 8-bit, EPROM, RAM & I/O HMOS (21V)	$15.95	$14.49
53057EX	8749H	40	MPU 8-bit (EPROM version 8049)	22.99	19.99
53081EX	8751H	40	CPU w/ 4kx8 EPROM & 128x8 RAM (1.2-12MHz)	28.49	24.25
52978EX	87C51	40	CPU w/ 4kx8 EPROM & 128x8 RAM(3.5-12MHz)	21.99	18.69
53090EX	8755	40	16k EPROM with I/O	8.95	8.09

CMOS PIC Microcontrollers

101 more @ www.Jameco.com/IC

Part No.	Product No.	Pkg. Pins	Memory	Speed (MHz)	ROM Bits	RAM Bytes	I/O Lines	1	25
145040EX	PIC12C508-04/P	8	OTP	4	512	25	5	$1.49	$.99
144258EX	PIC12C509-04/P	8	OTP	4	1k	41	5	1.49	1.09
247193EX	PIC12F629-I/SN	8	Flash	20	1k	64	6	1.59	1.29
247206EX	PIC12F675-I/SN	8	Flash	20	1k	64	6	1.99	1.29
247329EX	PIC16C505-20I/P	14	OTP	20	1k	72	11	2.00	1.69
247337EX	PIC16C505-20I/SL	14	OTP	20	1k	72	11	1.99	1.69
247214EX	PIC16C54C-20I/P	18	OTP	20	512	25	12	2.33	2.00
247222EX	PIC16C54C-20I/SO	18	OTP	20	512	25	12	2.33	1.91
247231EX	PIC16C54C-20I/SS	20	OTP	20	512	25	12	2.57	2.18
247249EX	PIC16C55A-20I/P	28	OTP	20	512	24	20	2.96	2.61
247257EX	PIC16C55A-20/SO	28	OTP	20	512	24	20	3.08	2.61
134172EX	PIC16C56-RC/P	18	OTP	20	1k	25	12	4.49	3.69
247265EX	PIC16C56A-20I/P	18	OTP	20	1k	25	12	2.87	2.44
247273EX	PIC16C56A-20/SO	18	OTP	20	1k	25	12	2.66	2.56
247281EX	PIC16C57C-20/P	28	OTP	20	2k	72	20	3.46	2.75
247290EX	PIC16C57C-20/SO	28	OTP	20	2k	72	20	3.60	3.06
247302EX	PIC16C58B-20/P	18	OTP	20	2k	73	12	2.77	2.22
247311EX	PIC16C58B-20/SO	18	OTP	20	2k	73	12	2.82	2.41
193383EX	PIC16C622A-04/P	18	OTP	4	2k	128	13	2.69	2.29
193359EX	PIC16C711-04/P	18	OTP	4	1k	68	13	3.99	2.29
193439EX	PIC16F627-20/P	18	Flash	20	1k	224	16	3.29	2.55
193447EX	PIC16F628-20/P	18	Flash	20	2k	224	16	3.69	2.69
246730EX	PIC16F628-20/SO	18	Flash	20	2k	224	16	3.71	2.73
246748EX	PIC16F628-20/SS	20	Flash	20	2k	224	16	4.02	2.97
246756EX	PIC16F628-20I/P	18	Flash	20	2k	224	16	4.02	2.97
246764EX	PIC16F628-20I/SO	18	Flash	20	2k	224	16	4.09	3.02
247126EX	PIC16F630-I/SL	14	Flash	20	1k	128	12	1.86	1.58
247134EX	PIC16F630-I/ST	T14	Flash	20	1k	128	12	2.07	1.77
247142EX	PIC16F648A-I/P	18	Flash	20	4k	256	16	3.27	1.92
247151EX	PIC16F648A-I/SO	18	Flash	20	4k	256	16	3.34	2.46
247169EX	PIC16F648A-I/SS	20	Flash	20	4k	256	16	3.59	2.66
247177EX	PIC16F676-I/SL	14	Flash	20	1k	64	12	2.14	1.81
247185EX	PIC16F676-I/ST	T14	Flash	20	1k	64	12	2.35	2.00
246801EX	PIC16F73-I/SO	28	Flash	20	4k	192	22	5.06	4.30
193391EX	PIC16F73-I/SP	28	Flash	20	4k	192	5	5.19	4.19
246810EX	PIC16F73-I/SS	28	Flash	20	4k	192	22	5.20	4.41
246772EX	PIC16F74-I/L	44	Flash	20	4k	192	33	6.86	6.12
246781EX	PIC16F74-I/P	44	Flash	20	4k	192	33	7.36	6.26
246828EX	PIC16F76-I/SO	28	Flash	20	8k	368	22	6.34	5.39
246836EX	PIC16F76-I/SS	28	Flash	20	8k	368	22	6.49	5.52
246799EX	PIC16F77-I/L	44	Flash	20	8k	368	33	7.85	6.99
247054EX	PIC16F818-I/SO	18	Flash	20	1k	128	16	3.10	2.28
247062EX	PIC16F818-I/SS	20	Flash	20	1k	128	16	3.37	2.39
247089EX	PIC16F819-I/SO	18	Flash	20	2k	256	16	3.53	2.60
247071EX	PIC16F819-I/SS	20	Flash	20	2k	256	16	3.81	2.81
145111EX	PIC16F84-04/P	18	Flash	4	1k	68	13	6.59	4.39
145120EX	PIC16F84-10/P	18	Flash	10	1k	68	13	7.09	5.99
193332EX	PIC16F84A-20/P	18	Flash	20	1k	68	13	5.79	4.69
246844EX	PIC16F84A-20/SO	18	Flash	20	1k	68	13	5.73	4.87
246852EX	PIC16F84A-20/SS	20	Flash	20	1k	68	13	6.11	5.19
246861EX	PIC16F84A-20I/P	18	Flash	20	1k	68	13	6.20	5.24
246879EX	PIC16F84A-20I/SO	18	Flash	20	1k	68	13	6.30	5.35
246887EX	PIC16F84A-20I/SS	20	Flash	20	1k	68	13	6.66	5.65
247097EX	PIC16F87-I/P	18	Flash	20	4k	368	16	4.02	2.97
247100EX	PIC16F87-I/SO	18	Flash	20	4k	368	16	4.12	3.04
247118EX	PIC16F87-I/SS	20	Flash	20	4k	368	16	4.42	3.26
246908EX	PIC16F870-I/SO	28	Flash	20	2k	128	22	4.35	3.69
246895EX	PIC16F870-I/SP	28	Flash	20	2k	128	22	4.35	3.69
246916EX	PIC16F870-I/SS	28	Flash	20	2k	128	22	4.49	3.81
246932EX	PIC16F871-I/L	44	Flash	20	2k	128	33	5.76	5.40

MICROCHIP CMOS PIC Microcontrollers (Continued)

Part No.	Product No.	Pkg. Pins	Memory	Speed (MHz)	ROM Bits	RAM Bytes	I/O Lines	1	25
246924EX	PIC16F871-I/P	40	Flash	20	2k	128	33	$5.15	$4.65
246959EX	PIC16F872-I/SO	28	Flash	20	2k	128	22	4.35	3.69
246941EX	PIC16F872-I/SP	28	Flash	20	2k	128	22	4.35	3.69
246967EX	PIC16F872-I/SS	28	Flash	20	2k	128	22	4.49	3.81
246983EX	PIC16F873A-I/SO	28	Flash	20	4k	192	22	6.16	5.22
246975EX	PIC16F873A-I/SP	28	Flash	20	4k	192	22	6.29	5.19
247003EX	PIC16F874A-I/L	44	Flash	20	4k	192	33	7.55	6.73
246991EX	PIC16F874A-I/P	40	Flash	20	4k	192	33	6.72	5.72
193367EX	PIC16F876-20/SP	28	Flash	20	256	368	22	7.89	6.69
247020EX	PIC16F876A-I/SO	28	Flash	20	8k	368	22	6.63	5.64
247011EX	PIC16F876A-I/SP	28	Flash	20	8k	368	22	6.63	5.64
176882EX	PIC16F877-20/P	40	Flash	20	256	368	33	9.49	8.49
247046EX	PIC16F877A-I/L	44	Flash	20	8k	368	33	8.11	7.24
247038EX	PIC16F877A-I/P	40	Flash	20	8k	368	33	7.24	6.15
247345EX	PIC16HV540-20/P	18	OTP	20	512	25	12	2.30	1.95
247353EX	PIC16HV540-20/SO	20	OTP	20	512	25	12	2.35	2.00

ATMEL AT89C Series

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Part No.	Product No.	Pins	Description	1	25
168903EX	AT89C51-24PC	40	8-bit MCU, 24MHz 4kb flash memory	$4.49	$3.99
168920EX	AT89C52-24PC	40	8-bit MCU, 24MHz 8kb flash mem.	4.39	2.85
168938EX	AT89C52-24JC	44	8-bit MCU, 24MHz 8kb flash PLCC	4.35	2.83
168874EX	AT89C2051-24PC	20	8-bit MCU, 24MHz 2kb flash mem.	3.59	2.39
204089EX	AT89C4051-24PC	20	8-bit MCU, 24MHz 4kb flash mem. 8-bit	4.49	2.95
204097EX	AT89S8252-24PC	40	8-bit MCU, 24MHz 8kb flash mem. 2kb EEPROM	6.75	4.49
204100EX	AT90S1200-12PC	20	20 AVR 8-bit RISC MCU, 12MHz 1kb prog. flash	2.95	1.95
204126EX	AT90S8515-8PC	40	40 AVR 8-bit RISC MCU, 8MHz 8kb prog. flash	7.95	5.49

Stamp Microcontrollers

80C52-BASIC Microcontroller

The 80C52-BASIC chip is a custom-masked 80C52 microcontroller with a full-featured 8k-byte ROM-resident BASIC-52 interpreter.

Hardware: • On-chip oscillator and clock circuit
- Operates DC to 12MHz • 256 x 8-bit RAM

Software: • Full BASIC interpreter in ROM on a single chip
- "Stand-alone" software development
- Interrupts can be handled by BASIC or Assembly Language

Part No.	Product No.	Description	1	10
125647EX	80C52BASIC	CPU 8-bit CMOS w/ BASIC interpreter	$32.09	$28.89

GALs

More @ www.Jameco.com/IC

Part No.	Cross Ref.	Pins	Description	1	10
38666EX	20V8-25*	24	25ns 64 x 40 AND array	$1.63	$1.46
39167EX	22V10-25	24	25ns 132 x 44 AND array lattice	3.99	3.49

GALs are electrically erasable PLDs that can be used in place of numerous PALs

* Replaces PALs: 14H8, 14L8, 14P8, 16H6, 16L6, 16P6, 18H4, 18L4, 18P4, 20H2, 20H8, 20L2, 20L8, 20P2, 20P8, 20R4, 20R6, 20R8, 20RP4, 20RP6, 20RP8

4000 Series

More @ www.Jameco.com/IC

Part No.	Cross Ref.	Pins	Description	1	10
12562EX	CD4001**	14	Quad 2-input NOR gate	$.29	$.24
12634EX	CD4011**	14	Quad 2-input NAND gate	.29	.24
12677EX	CD4013**	14	Dual D flip-flop with set/reset	.35	.25
12706EX	CD4015*	16	Dual 4-stage static shift register	.45	.37
12722EX	CD4016*	14	Quad bilateral switch	.28	.24
12749EX	CD4017*	16	Decade counter/divider	.39	.35
12802EX	CD4020*	16	14-stage binary/ripple counter	.49	.39
12845EX	CD4023*	14	Triple 3-input NAND gate	.29	.25
12853EX	CD4024*	14	7-stage binary counter	.32	.27
12950EX	CD4040*	16	12-stage binary/ripple counter	.32	.27
13055EX	CD4049**	16	HEX/buffer/converter (inverting)	.29	.24
13071EX	CD4050*	16	Hex/buffer/converter (N-inverting)	.22	.19
13098EX	CD4051*	16	Single 8-channel multi./demultiplexer	.45	.39
13127EX	CD4053	16	Triple 2-channel multi./demultiplexer	.33	.27
13186EX	CD4066**	14	Quad bilateral switch	.35	.25

*10 pieces in CD4000 kit, pg 37 **20 pieces in CD4000 kit, pg 37

4000 Series (Continued)

More @ www.Jameco.com/IC

Part No.	Cross Ref.	Pins	Description	1	10
13231EX	CD4069*	14	Hex inverter (74C04)	$.30	$.24
13258EX	CD4070*	14	Quad EXCLUSIVE-OR gate (74C86)	.28	.24
13354EX	CD4081*	14	Quad 2-input AND gate	.28	.24
13400EX	CD4093*	14	Quad 2-input NAND Schmitt trigger	.29	.25
13493EX	CD4511*	16	BCD to 7-seg. latch/decoder/driver	.69	.59
13581EX	CD4520	16	Dual binary up counter	.45	.35
13611EX	CD4528	16	Dual monostable multivibrator	.69	.49
13653EX	CD4538*	16	Dual precision monostable multivibrator	.59	.49
13696EX	CD4543*	16	BCD to 7-segment decoder (LCD)	.59	.45
13709EX	CD4553	16	3-digit BCD counter	2.95	2.75

*10 pieces in CD4000 kit, pg 37 **20 pieces in CD4000 kit, pg 37

IC Test Clip Series

22103EX

- Heavy-duty spring loaded hinge provides positive contact
- 20 AWG insulated gold contacts • Color: white

Part No.	Cross Ref.	Description	1	10
22103EX	JTC16	16-pin (for 8, 14 and 16-pin ICs)	$6.95	$6.25
22120EX	JTC20	20-pin (for 18 and 20-pin ICs)	8.95	6.50
22162EX	JTC28	28-pin	10.95	9.95

7400 Series

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Part No.	Cross Ref.	Pins	Description	1	10
48979EX	7400**	14	Quad 2-input NAND gate	$.65	$.55
49015EX	7402*	14	Quad 2-input NOR gate	.59	.49
49040EX	7404**	14	Hex inverter	.59	.49
49120EX	7407**	14	Hex buffer/driver (O.C.)	.35	.32
49146EX	7408*	14	Quad 2-input AND gate	.82	.63
49728EX	7417*	14	Hex buffer/driver (O.C. hi-voltage)	.91	.77
50235EX	7432*	14	Quad 2-input OR gate	.59	.49
50403EX	7445	16	BCD-to-decimal decoder/driver (30V)	1.02	.91
50420EX	7447*	16	BCD-to-7 segment decoder/driver (15V)	1.49	1.29
50577EX	7475	16	4-bit bi-stable latch	2.95	2.75
50593EX	7476	16	Dual JK flip-flop with preset & clear	1.79	1.51
50631EX	7483	16	4-bit binary full adder	.89	.79
50665EX	7486	14	Quad EXCLUSIVE-OR gate	.89	.75
50681EX	7489	16	64-bit RAM P 50ns	3.49	3.19
50690EX	7490	14	Decade counter	1.49	1.15
50745EX	7493	14	4-bit binary counter	1.49	1.34
49509EX	74150	24	16 to 1 line multiplexer	1.95	1.75
49883EX	74189	16	64-bit RAM tri-state (DM8599N)	3.40	3.31
49912EX	74192	16	Decade up/down counter with clear	3.69	3.39
88225EX	SDLD001A	—	Texas Instruments TTL Data Book	34.95	31.49

*10 pieces included in 7400 kit, pg 37 **20 pieces included in 7400 kit, pg 37

74AC Series

More @ www.Jameco.com/IC

Part No.	Cross Ref.	Pins	Description	1	10
238887EX	74AC10	14	Triple 3-input NAND gate	$.25	$.24
238836EX	74AC20	14	4-input NAND gate	.41	.36
238730EX	74AC139	16	Dual 1 of 4 decoder/demultiplexer	~~$.55~~ .44	.37
238748EX	74AC151	16	8-input multiplexer	~~$.49~~ .42	.32
238844EX	74AC241	20	Octal buffer/line driver w/ 3-state outputs	~~$.44~~ .41	.33
238879EX	74AC257	16	Quad 2-input multiplexer	.38	.35

74ACT Series

More @ www.Jameco.com/IC

Part No.	Cross Ref.	Pins	Description	1	10
239046EX	74ACT10	14	Triple 3-input NAND gate	$.20	$.18
239011EX	74ACT139	16	Dual 1 of 4 decoder/demultiplexer	~~$.40~~ .38	.31
239020EX	74ACT151	16	8-input multiplexer	~~$.55~~ .51	.39
239097EX	74ACT241	20	Octal buffer/line driver with 3-state outputs	~~$.44~~ .41	.33

74C Series

More @ www.Jameco.com/IC

Part No.	Cross Ref.	Pins	Description	1	10
44222EX	74C00	14	Quad 2-input NAND gate	$.99	$.74
44231EX	74C04	14	Hex inverter (CD4069)	.99	.74
44564EX	74C922	18	16-key keyboard encoder (INS8245N)	6.29	5.05
44572EX	74C923	20	20-key keyboard encoder (INS8246N)	5.99	4.95

Call for pricing on quantities over 100 – we carry major manufacturers. **We will special order any IC – $100 Minimum Order**

74HC Series

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✳ Prepackaged: order in increments of 10

Part No.	Cross Ref.	Pins	Description	1	10
45161EX	74HC00	14	Quad 2-input NAND gate (6231581)	$.22	$.19
45188EX	74HC02	14	Quad 2-input NOR gate	✳	.15
45209EX	74HC04	14	Hex inverter (buffered)	.23	.19
45364EX	74HC14	14	Hex inverter Schmitt trigger	.22	.19
45794EX	74HC32	14	Quad 2-input OR gate	.28	.23
46130EX	74HC74	14	Dual D flip-flop	.35	.32
45330EX	74HC138	16	3-to-8 decoder/demultiplexer	.30	.27
45541EX	74HC192	16	Decade up/down counter with clear	1.59	1.45
45612EX	74HC240	20	Octal inverting line driver tri-state	.30	.22
45655EX	74HC244	20	Octal driver tri-state	.45	.39
45831EX	74HC373	20	Octal D-type flip-flop tri-state	.45	.39
45858EX	74HC374	20	Octal D-type flip-flop edge-trig tri-state	.49	.39
46050EX	74HC541	20	Octal buffer/line driver tri-state	.33	.27
46084EX	74HC574	20	Octal D-type flip-flop tri-state	.33	.27
46105EX	74HC595	16	8-bit serial-to-parallel shift reg. tri-state	.62	.44

74HCT Series

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✳ Prepackaged: order in increments of 10

Part No.	Cross Ref.	Pins	Description	1	10
44871EX	74HCT00	14	Quad 2-input NAND gate (Y560820T)	$.24	$.20
44898EX	74HCT04	14	Hex inverter	.23	.20
44901EX	74HCT08	14	Quad 2-input AND gate	✳	.15
44935EX	74HCT14	14	Hex inverter Schmitt trigger	.20	.18
45057EX	74HCT32	14	Quad 2-input OR gate	.21	.18
45137EX	74HCT74	14	Dual D flip-flop	.25	.21
44927EX	74HCT138	16	3-to-8 decoder/demultiplexer	.33	.27
63773EX	74HCT139	16	2-to-4 decoder/demultiplexer	.30	.27
88057EX	74HCT154	24	4-to-16 decoder/demultiplexer	1.06	.85
45014EX	74HCT240	20	Octal inverting line driver tri-state	.32	.29
45022EX	74HCT244	20	Octal driver tri-state	.30	.29
45031EX	74HCT245	20	Octal transceiver tri-state	.38	.30
45049EX	74HCT273	20	Octal D-type flip-flop with clear	.38	.30
45065EX	74HCT373	20	Octal D-type flip-flop tri-state	.33	.27
45073EX	74HCT374	20	Octal D-type flip-flop edge-trig. TS	.34	.30
99303EX	74HCT541	20	Octal buffer/line driver tri-state	.38	.30
45090EX	74HCT573	20	Octal D-type latched flip-flop tri-state	.35	.30
45102EX	74HCT574	20	Octal D-type flip-flop edge-trigger tri-state	.38	.30
45129EX	74HCT688	20	8-bit magnitude comparator	.53	.43

74LS Series

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Part No.	Cross Ref.	Pins	Description	1	10
46252EX	74LS00**	14	Quad 2-input NAND gate	$.29	$.27
46287EX	74LS02**	14	Quad 2-input NOR gate	.29	.25
46316EX	74LS04**	14	Hex inverter	.29	.26
46341EX	74LS05*	14	Hex inverter (O.C.)	.34	.28
46367EX	74LS07	14	Hex buffer/driver (O.C. hi-voltage)	.84	.79
46375EX	74LS08**	14	Quad 2-input AND gate	.36	.31
46404EX	74LS10*	14	Triple 3-input NAND gate	.24	.16
46439EX	74LS11*	14	Triple 3-input AND gate	.36	.27
46640EX	74LS14*	14	Hex inverter Schmitt trigger	.29	.25
47095EX	74LS20*	14	Dual 4-input NAND gate	.25	.19
47458EX	74LS30*	14	8-input NAND gate	.33	.29
47466EX	74LS32**	14	Quad 2-input OR gate	.29	.26
47693EX	74LS38	14	Quad 2-input NAND gate buffer (O.C.)	.29	.25
47790EX	74LS47*	16	BCD to 7-seg. decoder/driver (O.C.)	.72	.52
47811EX	74LS48	16	BCD to 7-seg. decoder/driver	4.99	4.24
47992EX	74LS73*	14	Dual JK flip-flop with clear	.32	.27
48004EX	74LS74**	14	Dual D flip-flop	.29	.25
48021EX	74LS75*	16	4-bit bi-stable latch	.85	.73
48039EX	74LS76	16	Dual JK flip-flop with preset and clear	.69	.62
48071EX	74LS85*	16	4-bit magnitude comparator	.43	.33
48098EX	74LS86*	14	Quad EXCLUSIVE-OR gate	.35	.30
48119EX	74LS90*	14	Decade counter	.49	.45
48151EX	74LS93*	14	4-bit binary counter	.89	.79
46480EX	74LS123*	16	Dual mono. multivibrator with clear	.39	.30

*10 pieces included in 74LS kit, pg 37 **20 pieces included in 74LS kit, pg 37

74LS Series (Continued)

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✳ Prepackaged: order in increments of 10

Part No.	Cross Ref.	Pins	Description	1	10
46501EX	74LS125*	14	Quad bus buffer neg. enable tri-state	$.46	$.35
46607EX	74LS138**	16	3 to 8 decoder/demultiplexer	.38	.35
46623EX	74LS139*	16	2 to 4 decoder/demultiplexer	.34	.29
46703EX	74LS151*	16	8-bit input multiplexer	.39	.35
46738EX	74LS154	24	4 to 16 line decoder/demultiplexer	4.45	3.99
46754EX	74LS155*	16	Dual 2/4 demultiplexer	.49	.41
46771EX	74LS157*	16	Quad 2/1 data selector	.36	.31
46818EX	74LS161	16	Synch 4-bit counter	.44	.38
46851EX	74LS164	14	8-bit serial shift register	.37	.31
46931EX	74LS174*	16	Hex D flp-flop with clear	.34	.29
46957EX	74LS175*	16	Quad D flip-flop with clear	.40	.31
46990EX	74LS190	16	Synchronous up/down counter	1.71	1.54
47010EX	74LS192	16	Decade up/down counter with clear	3.95	3.59
47036EX	74LS193*	16	Binary up/down counter with clear	.59	.49
47141EX	74LS240*	20	Octal invert. line driver tri-state	.41	.31
47167EX	74LS241	20	Octal bus/line driver tri-state	.27	.25
47183EX	74LS244*	20	Octal driver tri-state	.44	.37
47212EX	74LS245*	20	Octal bus transceiver tri-state	.45	.39
47247EX	74LS247	16	BCD to 7-segment decoder/driver (O.C.)	.94	.80
47386EX	74LS273*	20	Octal D-tyoe flip-flop with clear	.39	.31
47600EX	74LS373*	20	Octal D flip-flop tri-state	.45	.39
47634EX	74LS374*	20	Octal D F/F edge-trig tri-state	.45	.39
47669EX	74LS377	20	Octal D register common enable	✳	.13
47722EX	74LS390	16	Dual 4-bit decade counter	.69	.59
47861EX	74LS540	20	Octal invert. buffer/line driver tri-state	.86	.74
47870EX	74LS541	20	Octal buffer/line driver tri-state	.69	.59
64418EX	74LS573	20	Octal D-type F/F latch tri-state	2.06	1.81
47984EX	74LS688	20	8-bit magnitude comparator ~~$1.19~~	.80	.77

*10 pieces in 74LS kit, pg 37 **20 pieces in 74LS kit, pg 37

9000 Series

Part No.	Cross Ref.	Pins	Description	1	10
53663EX	9368	16	FND70 driver/latch	$4.49	$3.95
10567EX	AM9513APC ⌘	40	System timing controller	39.95	35.95

⌘ Pull

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Part No.	Product No.	Pins	Description	1	10
133410EX	DS1216C	28	Smartwatch/RAM 64K/256k	$31.85	$27.69
114278EX	DS1225AB-150	28	64k nonvol. SRAM 5%pwr, 4.62V WP	17.29	14.49
177113EX	DS1230Y-100	28	256k nonvol. SRAM 10%pwr, 4.37V WP	17.75	13.75
176778EX	DS1302	8	Trickle charge time keeping IC	2.49	2.25
114374EX	DS1387 ⌘	24	RAMified real time clock 4kx8	8.59	7.99
114382EX	DS1620	8	Digital thermometer & thermostat	6.29	5.05
133452EX	DS12887 ⌘	24	Real time clock chip	8.15	6.25

⌘ Pull

Maxim-Type Interface Series

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Part No.	Cross Ref.	Pins	Description	1	10
142535EX	MAX202CPE	16	+5V RS-232 trans. requires 0.1µF caps	$2.49	$2.25
244241EX	MAX202EPE	16	+5V RS-232 Transceivers	1.13	.99
24811EX	MAX232CPE SP232ACP	16	+5V powered, dual RS-232 transmitter/ receiver (0°C to +70°C)	2.19	1.75
106147EX	MAX232CWE✦	16	+5V powered, dual RS-232 (SOIC) trans./rcvr.	2.75	2.10
106155EX	MAX232EPE SP232AEP	16	+5V powered, dual RS-232 transmitter/receiver (-40°C to +85°C)	2.49	2.25
106163EX	MAX233CPP SP233ACP	20	+5V powered, multichannel RS-232 drivers/receivers (no ext. components)	5.75	5.18
106171EX	MAX235CPG SP235ACP	24	+5V powered, five RS-232 transmitter/ receiver (no ext. components)	9.95	8.45
242085EX	MAX626CPA MIC4426N	8	Dual 1.5A-peak low-side MOSFET driver	1.14	.93
244195EX	MAX1487CPA	8	RS-485/RS-422 low-power transceivers	2.45	1.89

✦ Surface mount

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Interface Series

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Part No.	Cross Ref.	Pins	Description	1	10
25232EX	MC3486P	16	Quad EIA-422/423 line rec. w/ 3-st. outputs	**$.59**	**$.49**
25259EX	MC3487P	16	Quad EIA-422 line driver w/ 3-state outputs	**.69**	**.59**
50964EX	75176BN	8	Differential bus transceiver	**.65**	**.55**
23157EX	75188N	14	Quad line driver RS-232 (DS1488N)	**.29**	**.25**
23181EX	75189N	14	Quad line rec. RS-232 (DS1489N)	**.29**	**.20**
51131EX	75492	14	Hex digit driver (492)	**4.25**	**3.89**

Digital Interface ICs

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Stepper Motor Controllers

Designed to interface a logic level input byte to a stepper motor.

Part No.	Product No.	Pins	Description	1	10
141532EX	EDE1200	18	Unipolar stepper motor controller *Was ~~$8.95~~*	**$8.30**	**$6.90**
157526EX	EDE1204	18	Bipolar stepper motor controller *Was ~~$8.95~~*	**8.30**	**6.90**

5000 Series and Clock Chips

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Part No.	Cross Ref.	Pins	Description	1	10
32803EX	TCM5089N	16	Integrated tone dialer chip	**$4.99**	**$4.49**
25101EX	MC146818 ⌘	24	Real time clock plus RAM	**4.09**	**3.48**

⌘ Pull

Decoders

More @ www.Jameco.com/IC

Part No.	Product No.	Pins	Description	1	10
126607EX	HT648L	24	Decoder 10-bit address / 8-bit latch data ~~$3.29~~	**$2.89**	**$2.39**

KAE Servo Motor Controller

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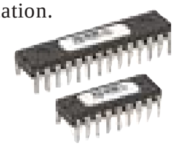
Controllers operate from standard 8-bit serial interface (RS-232 or RS-485). Using RS-485, any mix of up to 32 controllers may be operated from a single serial port. Complete documentation.



PIC-SERVO Motion Control Chipset for DC Motors

- PIC servo control for DC motors with digital encoders
- 32-bit position, velocity, and acceleration resolution
- PWM and direction outputs connect to servo amplifier
- Two chip set (PIC-SERVO 28-pin and PIC-ENC 18-pin)

Part No.	Description	Pins	1	10
146472EX	PIC-SERVO chip set, 0.3" DIP	28/18	**$34.95**	**$29.50**

A/D & D/A Converters

More @ www.Jameco.com/IC

Part No.	Cross Ref.	Pins	Description	1	10
115158EX	AD558JN	16	Microprocessor compat. 8-bit DAC ~~$15.95~~	**$12.59**	**$11.99**
43756EX	7107CPL	40	3 1/2-digit LED single-chip A/D converter ~~$3.49~~	**3.19**	**2.59**
10153EX	ADC0804LCN	20	8-bit A/D converter (1 LSB)	**2.49**	**1.89**
10170EX	ADC0808CCN	28	8-bit A/D convtr. w/ 8-ch. multiflexer	**4.99**	**4.19**
10188EX	ADC0809CCN	28	8-bit A/D convtr. w/ 8-ch. multiflexer	**2.89**	**2.59**
116100EX	ADC0831CCN	8	8-bit A/D converter w/ single diff. input	**1.95**	**1.75**
128186EX	DAC0832LCN	20	8-bit µP D/A conv. dbl. buff. (.05% Lin.) ~~$3.95~~	**3.09**	**2.99**

Voltage Regulators

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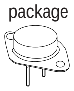
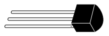
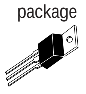
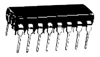
Part No.	Cross Ref.	Pkg.	Description	1	10
23579EX	LM317T**	TO-220/3	1.5A adj. pos. reg. (1.2V-37V)	**$.45**	**$.39**
23667EX	LM323K	TO-3/2	5V 3A positive reg.	**2.89**	**2.75**
23819EX	LM337T*	TO-220/3	1.5A/adj. neg. reg. (-1.2V-37V)	**.69**	**.59**
23835EX	LM338K	TO-3/2	5A adj. pos. reg. (1.2V-32V)	**4.95**	**3.89**
192284EX	LM338T	TO-220/3	5A adjustable regulator	**1.99**	**1.49**
23940EX	LM350T	TO-220/3	3 amp. adj. power regulator ~~$1.15~~	**1.09**	**.89**
24467EX	LM723CN*	DIP-14	Voltage regulator (2V-37V)	**.26**	**.24**
23368EX	LM2931CT	TO-220/5	3V-24V low dropout regulator	**.68**	**.59**
51262EX	7805T**	TO-220/3	5V 1A pos. voltage reg. (LM340T-5)	**.35**	**.32**
51182EX	78L05**	TO-92	5V 100mA pos. voltage regulator	**.27**	**.24**
192233EX	78M05	TO-220/3	5V 500mA pos. voltage regulator	**.35**	**.32**
51300EX	7808T*	TO-220/3	8V 1A pos. voltage reg. (LM340T-8)	**.46**	**.35**
192225EX	78L09	TO-92	9V 100mA pos. voltage regulator	**.24**	**.23**
51334EX	7812T**	TO-220/3	12V 1A pos. voltage reg. (LM340T-12)	**.35**	**.32**
51203EX	78L12*	TO-92	12V 100mA pos. voltage regulator	**.19**	**.155**
192241EX	78M12	TO-220/3	12V 500mA pos. voltage regulator	**.24**	**.22**
51457EX	7905T*	TO-220/3	5V 1A neg. voltage regulator	**.42**	**.38**
51481EX	7912T*	TO-220/3	12V 1A neg. voltage regulator	**.30**	**.25**
51431EX	79L12	TO-92	12V 100mA neg. voltage regulator	**.19**	**.14**

***10 pieces in Linear kit, pg 37 **20 pieces in Linear kit, pg 37**

TO-3 package	TO-92 package	TO-220 package	DIP package
			
4-pin	3-pin	3 or 5-pin	8, 14, 16 18, and 20-pin

Linear Series

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Part No.	Cross Ref.	Pkg.	Description	1	10
25751EX	MF10CN	DIP-20	General purpose dual active filter	**$2.85**	**$2.19**
120723EX	LM12CLK	TO-3/4	80W op amp.	**19.05**	**18.65**
107094EX	LM34CZ	TO-92	Prec. F temp. sensor (-40˚F to +230˚F)	**4.90**	**4.26**
155192EX	LM34DZ	TO-92	Prec. F temp. sensor (+32˚F to +212˚F)	**1.99**	**1.67**
192217EX	LM35DT	TO-220/3	Prec. C temp. sensor (-55˚C to 150˚C)	**2.57**	**1.92**
107107EX	LM35CZ	TO-92	Prec. C temp. sensor (-40˚C to 110˚C)	**5.79**	**4.39**
33195EX	TL072CP*	DIP-8	Low noise JFET dual op amp.	**.26**	**.25**
33216EX	TL074CN*	DIP-14	Low noise JFET quad op amp.	**.37**	**.30**
33267EX	TL084CN*	DIP-14	JFET input quad op amp.	**.43**	**.39**
239329EX	DG211CJ	DIP-16	SPST quad channel analog switch	**1.97**	**1.64**
23392EX	LM301N*	DIP-8	Improved op amp.	**.47**	**.42**
23464EX	LM308N*	DIP-8	Precision op amp.	**4.49**	**3.99**
23528EX	LM311N*	DIP-8	Voltage comparator	**.35**	**.25**
23608EX	LM318N	DIP-8	Precision hi-speed op amp.	**.56**	**.52**
23632EX	LM319N	DIP-14	Hi-speed dual comparator	**.30**	**.25**
212169EX	LM324AN	DIP-14	Low power quad op amp.	**.22**	**.21**
23683EX	LM324N**	DIP-14	Low power quad op amp. (ULN4336)	**.27**	**.23**
23721EX	LM331N	DIP-8	Prec. volt to freq. convrtr. (150ppm/°C)	**1.75**	**1.55**
23739EX	LM334Z	TO-92	Adjust current source	**.72**	**.65**
23851EX	LM339N**	DIP-14	Quad comparator ~~$.21~~	**.19**	**.165**
121099EX	LP339N	DIP-14	Quad low-power comparator	**.44**	**.34**
120862EX	LM358AN	DIP-8	Low power dual op amp. (elect improv.)	**.45**	**.37**
23966EX	LM358N*	DIP-8	Low power dual op amp.	**.20**	**.18**
24088EX	LM383T	TO-220/5	7-watt audio high power amp.	**5.95**	**5.39**
24133EX	LM386N-3*	DIP-8	Low voltage audio amp. 500mW/9V	**.69**	**.59**
24281EX	LM393N*	DIP-8	Dual comparator	**.20**	**.18**
23000EX	LF398N	DIP-8	Sample and hold circuit	**1.59**	**1.45**
245489EX	DG405DJ	DIP-16	Improved dual hi-speed analog switches	**2.99**	**2.85**
119950EX	LF412ACN	DIP-8	Dual JFET op-amp.	**2.85**	**2.55**
256487EX	DG444DJ	DIP-16	Improved quad SPST analog switch ~~$2.69~~	**1.39**	**1.30**
27422EX	LM555CN**	DIP-8	Timer (MC1455P/NE555V)	**.27**	**.23**
126797EX	LMC555CN*	DIP-8	CMOS 555 timer	**.54**	**.49**
24328EX	LM556N*	DIP-14	Dual 555 timer (MC3456P)	**.49**	**.45**
24352EX	LM565N	DIP-14	Phased locked loop	**1.59**	**1.20**
24395EX	LM567V	DIP-8	Tone decoder	**.49**	**.40**
27490EX	NE571N	DIP-16	Compander, subscriber	**3.29**	**2.99**
115174EX	AD620AN	DIP-8	Low cost instrument amplifier	**17.95**	**15.95**
115182EX	AD633JN	DIP-8	Low cost analog multiplier	**7.09**	**7.05**
120926EX	LM675T	TO-220/5	Power op amp. ~~$7.95~~	**6.95**	**5.25**
24539EX	LM741CN**	DIP-8	Op amp. (ULN2151)	**.29**	**.25**
24563EX	LM747CN	DIP-14	Dual 741 op amp.	**4.19**	**3.85**
239265EX	LT1004CZ-2.5	TO-92	2.5V, micropower voltage reference	**.68**	**.52**
24942EX	MC1350P	DIP-8	Video IF amp (12V operation)	**1.95**	**1.85**
23131EX	LM1458N*	DIP-8	Dual op amp. (RC4558)	**.29**	**.26**
23211EX	LM1496N	DIP-14	Balanced mod./demodulator (MC1496P)	**.79**	**.59**
23270EX	LM1875T	TO-220/5	20-watt power audio amp.	**1.95**	**1.55**
107140EX	LM1881N	DIP-8	Video synchronous separator	**2.69**	**2.05**
243547EX	LM1894N	DIP-14	DNR noise reduction	**2.77**	**2.14**
34278EX	ULN2003A*	DIP-16	Hi-volt/curr. darl. transistor array	**.39**	**.35**
34972EX	XR2206	DIP-16	Monolithic function generator	**3.59**	**3.29**
34315EX	ULN2803A*	DIP-18	Hi-volt. hi-curr. darl. transistor array	**.69**	**.59**
23296EX	LM2901N	DIP-14	Quad comparator	**.26**	**.24**
23350EX	LM2917N-8	DIP-8	Frequency to volt converter	**2.45**	**1.75**
12183EX	CA3130E	DIP-8	CMOS op amp.	**.81**	**.78**
12204EX	CA3140E	DIP-8	Bi-MOS op amp.	**.59**	**.55**
12239EX	CA3161E	DIP-16	BCD to 7-seg. decoder driver	**2.13**	**1.95**
25216EX	MC3479P	DIP-16	Biphase stepper motor driver ~~$5.75~~	**3.99**	**3.39**
192516EX	LM3886T	TO-220/11	68W high perf. audio amp. with mute	**5.19**	**3.95**
24168EX	LM3900N	DIP-14	Quad amp. (CA3401)	**.77**	**.65**
24230EX	LM3914N	DIP-18	Bar-graph display driver	**2.55**	**2.15**
24256EX	LM3915N	DIP-18	3 dB steps bar-graph disp. driver	**2.49**	**1.99**

***10 pcs. in Linear series IC cabinet kit, pg 37 **20 pieces in Linear kit, pg 37**

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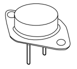
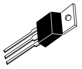
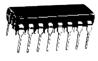
TO-3 package	TO-92 package	TO-220 package	DIP package
			
4-pin	3-pin	3 or 5-pin	8, 14, 16 18, and 20-pin

Linear Series (continued)

More @ www.Jameco.com/IC

Part No.	Cross Ref.	Pkg.	Description	1	10
24272EX	LM3916N	DIP-18	VU meter display driver	$2.25	$1.95
243580EX	LM4040AIZ-5.0	TO-92	5.0V, precision micropower volt. reference	1.87	1.56
25275EX	MC4044P	DIP-14	Frequency phase detector (11C44)	9.99	7.49
29356EX	RC4136N	DIP-14	Quad op amp (XR4136)	.77	.71
243379EX	MM5453N	DIP-40	Liquid crystal display driver	2.79	2.29
27385EX	NE5532*	DIP-8	Dual low noise op amp.	.49	.43
27406EX	NE5534	DIP-8	Low noise op amp.	.79	.69

***10 pcs. in Linear series IC cabinet kit, pg 37**

Linear Series (Continued)

More @ www.Jameco.com/IC

Part No.	Cross Ref.	Pkg.	Description	1	10
251900EX	LMC7111AIN	DIP-8	Tiny CMOS op amp w/ rail to rail I/O	$1.55	$1.14
51140EX	7555IPA	DIP-8	CMOS timer (LM555CN)	.36	.34
241808EX	ICL7665SCPA	DIP-8	2-16V voltage detector	2.55	2.19
241816EX	ICL7673	DIP-8	Auto battery backup switch, 2.5V to 15V	1.29	1.19
51879EX	8038CCPD	DIP-14	Precision wave form generator	3.19	2.59
241875EX	FAN8082	DIP-8	Bi-directional, 18V dc motor driver	.95	.90
241867EX	FAN8200	DIP-14	Bi-directional, 2-ch, 18V stepper motor driver	.85	.80
25021EX	MC14411P	DIP-24	Bit rate frequency generator	6.95	5.95
241841EX	MC14467	DIP-16	Smoke detector	1.59	.97
25064EX	MC14490P	DIP-16	Hex contact bounce eliminator	6.95	6.25
241832EX	MC145012	DIP-16	Smoke detector	2.79	2.65
118586EX	MC145151P⌘	DIP-28	Parallel input PLL freq. synthesizer	5.95	5.05

⌘ Pull

Optoisolators

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Optoisolators

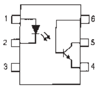


Fig. 1

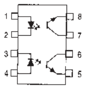


Fig. 2

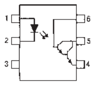


Fig. 3

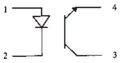


Fig. 4

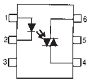


Fig. 5

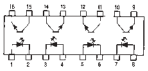


Fig. 6

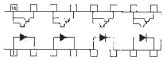


Fig. 7

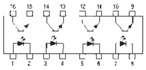
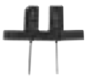


Fig. 8


114091EX

40985EX

Part No.	Product No.	Mfg.	Fig.	Pins	Description	Forward (V)	Input Current (mA)	Blocking Voltage (V)	Isolation (kV)	Pricing 1	Pricing 10
40985EX	4N25	✥	1	6	Diode, NPN photo transistor	1.5	10	30	2.5	$.22	$.18
41005EX	4N26	✥	1	6	Diode, NPN photo transistor	1.5	10	30	1.5	.25	.22
41056EX	4N35	✥	1	6	Diode, NPN photo transistor	1.5	10	30	3.5	.39	.35
41021EX	4N32	✥	3	6	Diode, NPN photo-darlington	1.5	10	30	2.5	.26	.24
41030EX	4N33	✥	3	6	Diode, NPN photo-darlington	1.5	10	30	1.5	.25	.24
114091EX	H21A1	✥	4	4	Single channel, slotted interrupter	1.7	60	30	—	.69	.64
114083EX	ISQ203	Isocom	6	16	Quad channel NPN photo transistor	1.5	20	30	7.5	2.95	2.65
24918EX	MCT6	✥	2	8	Dual channel NPN photo transistor	1.3	100	30	7.5	.49	.45
26278EX	MOC3010	✥	5	6	Bilateral triac driver	1.5	50	250	7.5	.49	.45
95038EX	MOC3021	✥	5	6	Bilateral triac driver	1.5	10	400	7.5	.46	.41
160338EX	PS2501-4	✥	8	16	Photo Darlington & Transistor/Detector	1.2	20	—	—	1.09	1.02
160362EX	PS2502-4	✥	7	16	Photo Darlington & Transistor/Detector	1.2	10	—	—	1.76	1.61

✥ Manufacturer varies

NTE Top 200 Replacement and Design Semiconductors

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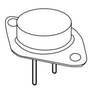
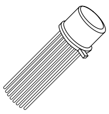
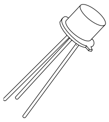
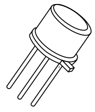
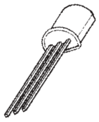
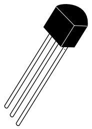
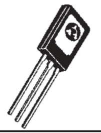
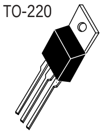
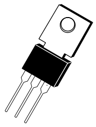
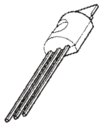
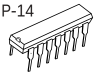
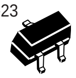
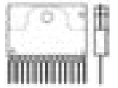
TO-3	TO-5	TO-18	TO-39	TO-89	TO-9/TO-92	TO-126	TO-218/ TO-220	TO-202	TO-237	DIP-14 SOT-23	SIP-9 SIP-13
										 	 

Integrated Circuits

Part No.	Cross Ref.	Pkg.	Description	1	10
260161EX	NTE778A	DIP-8	Dual operational amplifier	$2.38	$2.29
260179EX	NTE823	DIP-8	Low voltage audio amplifier	1.52	1.49
260187EX	NTE858M	DIP-8	Dual low noise JFET input op amp.	2.62	2.41
260195EX	NTE859	DIP-14	Quad low noise JFET input op amp.	3.73	3.55
260216EX	NTE941	TO-5/8	Operational amplifier	5.78	5.75
260224EX	NTE941M	DIP-8	Operational amplifier	.92	.88
260232EX	NTE947D	DIP-14	Dual operational amplifier	4.93	4.58
260241EX	NTE955M	DIP-8	Timing circuit	1.29	1.25
260347EX	NTE987	DIP-14	Quad low power operational amplifier	1.96	1.85
260355EX	NTE999	TO-92	Adjustable precision shunt regulator	1.02	.99
260128EX	NTE1714M	DIP-8	Remote control amplifier/driver	4.99	4.19
260136EX	NTE2014	DIP-16	7-channel darlington array drivers	2.84	2.69
260144EX	NTE2018	DIP-18	8-channel darlington array drivers	3.29	3.15

Integrated Circuits (continued)

Part No.	Cross Ref.	Pkg.	Description	1	10
259291EX	NTE4001B	DIP-14	Quad 2-input NOR gate	$.68	$.65
259303EX	NTE4006B	DIP-14	18 stage static shift register	2.82	2.77
259311EX	NTE4013B	DIP-14	Dual D flip-flop w/ set/reset	1.10	1.06
259320EX	NTE4049	DIP-16	Hex buffer/converter (inverting)	1.22	1.18
259338EX	NTE4066B	DIP-14	Quad bilateral switch	1.42	1.37
259346EX	NTE4093B	DIP-14	Quad 2-input NAND Schmitt trigger	1.05	1.02
260152EX	NTE7039	SIP-13	Vert. deflection output circuit w/ drive circuit	3.19	3.09
259354EX	NTE7407	DIP-14	Hex buffer/driver	1.29	1.25
259362EX	NTE7408	DIP-14	Quad 2-input AND gate	1.06	1.03
259389EX	NTE7475	DIP-16	4-bit bi-stable latch	3.89	3.71
259371EX	NTE74121	DIP-14	Monostable multivibrator	2.29	2.21
259397EX	NTE75189	DIP-14	Quad line receiver	1.22	1.18

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NTE Top 200 Replacement and Design Semiconductors

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Voltage Regulators

Part No.	Cross Ref.	Pkg.	Description	1	10
261358EX	NTE309K	TO-3	+5V, 1A voltage regulator	$8.02	$7.85
260208EX	NTE931	TO-3	+5V, 3A voltage regulator	11.60	11.02
260259EX	NTE960	TO-220	+5V, 1A voltage regulator	1.65	1.59
260267EX	NTE961	TO-220	-5V, 1A voltage regulator	1.65	1.59
260275EX	NTE962	TO-220	+6V, 1A voltage regulator	1.32	1.28
260283EX	NTE964	TO-220	+8V, 1A voltage regulator	1.29	1.25
260291EX	NTE966	TO-220	+12V, 1A voltage regulator	1.65	1.59
260304EX	NTE967	TO-220	-12V, 1A voltage regulator	1.65	1.59
260312EX	NTE968	TO-220	+15V, 1A voltage regulator	1.65	1.59
260321EX	NTE971	TO-220	-24V, 1A voltage regulator	4.65	4.39
260339EX	NTE972	TO-220	+24V, 1A voltage regulator	1.65	1.59
261331EX	NTE1914	TO-3	+12V, 1A voltage regulator	3.75	3.72
261340EX	NTE1915	TO-3	-12V, 1A voltage regulator	3.89	3.85

Transistors

Part No.	Cross Ref.	Pkg.	Description	1	10
261083EX	NTE47	TO-92	NPN high gain, low noise	$.61	$.59
261104EX	NTE48	TO-92	NPN darlington, high current	.95	.92
261112EX	NTE55	TO-220	PNP complimentary trans., high freq. driver	3.56	3.39
261139EX	NTE85	TO-92	NPN general purpose	.84	.79
260507EX	NTE100	TO-18	PNP germanium comp. trans. oscillator	3.15	3.09
260515EX	NTE102	TO-18	PNP germanium comp. trans. pwr output driver	3.69	2.49
260523EX	NTE108	TO-92	NPN high frequency amp.	1.34	1.29
260531EX	NTE123	TO-18	NPN general purpose audio amp., switch	.75	.73
260540EX	NTE123A	TO-18	NPN comp. transistor, general purpose	1.07	1.04
260558EX	NTE123AP	TO-92	NPN audio amplifier switch	.86	.79
260566EX	NTE128	TO-39	NPN comp. trans., audio output, video driver	1.19	1.15
260574EX	NTE128P	TO-237	NPN comp. transistor, general purpose	1.29	1.25
260582EX	NTE129	TO-237	PNP comp. transistor, general purpose	2.26	2.19
260591EX	NTE130	TO-3	NPN audio pwr amp., medium speed switch	2.76	2.52
260603EX	NTE154	TO-39	NPN high voltage video output	2.82	2.65
260611EX	NTE159	TO-92	PNP audio amplifier switch	.96	.91
260620EX	NTE172A	TO-92	NPN darlington pre-amp., med. sp. switch	.62	.61
260638EX	NTE175	TO-3	NPN comp. trans., hi volt. med. pwr switch	3.30	3.25
260646EX	NTE181	TO-3	NPN high power audio amplifier	6.60	6.29
260654EX	NTE184	TO-126	NPN comp. trans. audio pwr amp., switch	1.81	1.75
260662EX	NTE185	TO-126	PNP comp. trans. audio pwr amp., switch	1.90	1.85
260671EX	NTE196	TO-220	NPN comp. trans. audio pwr output&med. pwr switch	2.43	2.39
260689EX	NTE199	TO-92	NPN low noise, high gain amplifier	.67	.65
260777EX	NTE234	TO-92	PNP low noise, high gain amplifier	.89	.85
260822EX	NTE238	TO-3	NPN color TV horizontal output	5.55	5.49
260857EX	NTE247	TO-3	NPN comp. trans. darlington power amp.	5.27	4.99
260865EX	NTE253	TO-126	NPN comp. trans. darlington power amp.	1.53	1.49
260881EX	NTE261	TO-220	NPN comp. trans. darlington power amp.	2.28	2.22
260890EX	NTE262	TO-220	PNP comp. trans. darlington power amp.	2.52	2.49
260902EX	NTE263	TO-220	NPN comp. trans. darlington power amp.	2.52	2.39
260911EX	NTE264	TO-220	PNP comp. trans. darlington power amp.	2.91	2.85
260929EX	NTE265	TO-220	NPN darlington power amplifier	3.76	3.74
260937EX	NTE287	TO-92	NPN comp. trans. hi volt., general purpose	.87	.85
260945EX	NTE288	TO-92	PNP comp. trans. hi volt., general purpose	.80	.74
260953EX	NTE289A	TO-92	NPN comp. transistor audio power amp.	1.22	1.19
260961EX	NTE290A	TO-92	PNP comp. transistor audio power amp.	1.38	1.34
260970EX	NTE291	TO-220	NPN comp. trans. medium power amp., switch	2.16	2.09
260988EX	NTE311	TO-39	NPN frequency multiplier driver, VHF/UHF	2.78	2.75
260996EX	NTE316	TO-39	NPN high gain, low noise amp.	3.10	3.02
261008EX	NTE331	TO-220	NPN comp. trans. audio power amp., switch	2.89	2.74
261016EX	NTE332	TO-220	PNP comp. trans. audio power amp., switch	2.89	2.75
261024EX	NTE373	TO-126	NPN comp. transistor audio amp. driver	1.68	1.64
261032EX	NTE374	TO-126	PNP comp. transistor audio amp. driver	1.73	1.65
261041EX	NTE378	TO-220	PNP comp. trans. pwr amp. driver output switch	2.72	2.55
261059EX	NTE379	TO-220	NPN power amp. high voltage switch	7.14	7.09

Transistors (Continued)

Part No.	Cross Ref.	Pkg.	Description	1	10
261067EX	NTE397	TO-39	PNP power amp. & high speed switch	$2.74	$2.51
261075EX	NTE399	TO-92	NPN high voltage video amp.	2.75	2.64
261091EX	NTE473	TO-39	NPN RF power driver	5.17	5.15
260700EX	NTE2300	TO-3	NPN high voltage horizontal output	5.12	5.15
260718EX	NTE2311	TO-218	NPN high voltage high speed switch	14.24	13.45
260726EX	NTE2312	TO-220	NPN high voltage high speed switch	4.74	4.49
260734EX	NTE2322	DIP-14	PNP quad general purpose	2.82	2.57
260742EX	NTE2324	TO-220	NPN color TV horiz. deflection output	8.55	8.15
260751EX	NTE2329	TO-126	PNP comp. trans. audio power output	5.75	5.69
260769EX	NTE2331	TO-220	NPN color TV horiz. deflection output w/ damper diode	6.85	6.79
260785EX	NTE2343	TO-220	NPN comp. trans., darlington pwr amp., switch	2.07	1.95
260793EX	NTE2344	TO-220	PNP comp. trans., darlington pwr amp., switch	1.65	1.55
260806EX	NTE2349	TO-3	NPN darlington trans., hi curr. gen. purpose	15.62	15.39
260814EX	NTE2353	TO-220	NPN TV horiz. deflection output w/ damper diode	5.73	5.69
260831EX	NTE2408	SOT-23	NPN general purpose amp. (2/pk.)	1.25	1.19
260849EX	NTE2409	SOT-23	PNP general purpose amp. (2/pk.)	1.25	1.19
260873EX	NTE2543	TO-220	NPN darlington motor/relay driver	3.29	3.25
261121EX	NTE6410	TO-92	Unijunction transistor	4.79	4.75

JFETs

Part No.	Cross Ref.	Pkg.	Description	1	10
260427EX	NTE457	TO-92	N-ch JFET general purpose	$1.04	$.99
260435EX	NTE458	TO-92	N-ch JFET low noise, audio freq. amp.	1.70	1.65

MOSFETs

Part No.	Cross Ref.	Pkg.	Description	1	10
260443EX	NTE222	TO-39	Dual gate N-channel MOSFET	$10.56	$9.59
260451EX	NTE2389	TO-220	N-ch enhancement mode hi speed switch	5.35	5.15
260460EX	NTE2394	TO-126	N-ch enhancement mode hi speed switch	11.25	11.19
260478EX	NTE2395	TO-220	N-ch enhancement mode high speed switch	5.60	5.39
260486EX	NTE2397	TO-220	N-ch enhancement mode high speed switch	5.60	5.39
260494EX	NTE2398	TO-220	N-ch enhancement mode high speed switch	3.75	3.69

Diodes

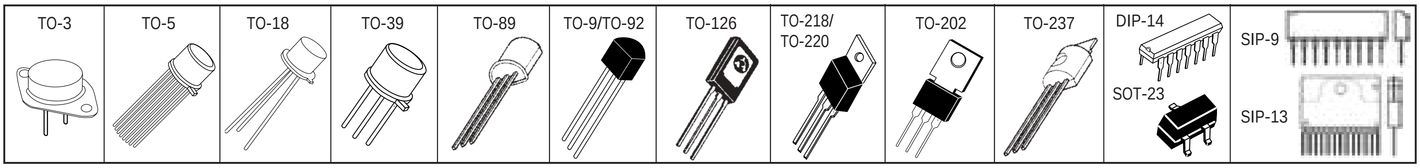
Part No.	Cross Ref.	Pkg.	Description	1	10
259418EX	NTE109	DO-7	Germanium fast switching	$1.18	$1.14
259426EX	NTE112	DO-35	Silicon small signal schottky	1.48	1.34
259434EX	NTE177	DO-35	Silicon general purpose	.30	.28
259442EX	NTE519	DO-7	Silicon ultra fast switch	.34	.31
259451EX	NTE570	DO-7	Silicon controlled avalanche diode	1.23	1.19
259469EX	NTE583	DO-7	Schottky RF switch	1.27	1.22
259477EX	NTE588	DO-7	Silicon 200V, 3A fast switch	1.25	1.21
259485EX	NTE618	Non-Std	Silicon tuning diode for AM radio, varactor	1.79	1.75

Zener Diodes

Part No.	Cross Ref.	Pkg.	Voltage	Wattage	Qty.	1	10
259565EX	NTE5010A	DO-35	5.1V	1/2W	1/pk.	$.39	$.36
259573EX	NTE5021A	DO-35	12V	1/2W	1/pk.	.49	.45
259581EX	NTE5024A	DO-35	15V	1/2W	1/pk.	.49	.48
259493EX	NTE135A	DO-35	5.1V	1W	2/pk.	.53	.51
259506EX	NTE136A	DO-35	5.6V	1W	2/pk.	.44	.41
259514EX	NTE138A	DO-35	7.5V	1W	2/pk.	.53	.50
259522EX	NTE142A	DO-35	12V	1W	2/pk.	.56	.55
259531EX	NTE143A	DO-35	13V	1W	2/pk.	.44	.41
259549EX	NTE145A	DO-35	15V	1W	2/pk.	.44	.41
259557EX	NTE147A	DO-35	33V	1W	2/pk.	.44	.41
259590EX	NTE5077A	DO-35	18V	1W	2/pk.	1.42	1.38
259602EX	NTE5105A	DO-35	200V	1W	2/pk.	1.86	1.78
259611EX	NTE5130A	DO-35	15V	5W	1/pk.	1.46	1.39
259629EX	NTE5141A	DO-35	30V	5W	1/pk.	2.05	2.01
259637EX	NTE5164A	DO-35	180V	5W	1/pk.	2.05	2.01

NTE Top 200 Replacement and Design Semiconductors

Please call our sales rep. if you cannot find the NTE product replacement you are trying to find or for special pricing on large quantity orders.



Rectifiers

Part No.	Cross Ref.	Pkg.	Description	PRV	AFC	1	10
259813EX	NTE116	DO-41	Rectifier	600V	1A	**$.49**	**$.45**
259821EX	NTE125	DO-41	Rectifier	1000V	2.5A	**.50**	**.48**
259830EX	NTE156	DO-41	Rectifier	1000V	3A	**.67**	**.63**
259645EX	NTE506	DO-41	Rectifier	1400V	2A	**1.10**	**1.06**
259848EX	NTE541	DO-35	Rectifier	8.4kV	50A	**8.37**	**8.29**
259856EX	NTE552	DO-41	Rectifier	600V	1A	**.93**	**.90**
259864EX	NTE558	DO-41	Rectifier	1500V	1A	**1.68**	**1.63**
259872EX	NTE569	DO-41	Rectifier	600V	3A	**1.12**	**1.03**
259881EX	NTE574	DO-41	Rectifier	400V	1A	**.58**	**.53**
259899EX	NTE576	DO-41	Rectifier	400V	5A	**1.86**	**1.79**
259901EX	NTE577	DO-41	Rectifier	1000V	5A	**3.58**	**3.45**
259910EX	NTE580	SOD57	Rectifier	600V	3A	**2.71**	**2.59**
260021EX	NTE598	TO-220/2	Rectifier	600V	8A	**2.16**	**2.11**
259928EX	NTE5800	DO-41	Rectifier	50V	3A	**.33**	**.31**
259936EX	NTE5801	DO-41	Rectifier	100V	3A	**.48**	**.45**
259944EX	NTE5804	DO-41	Rectifier	400V	3A	**.60**	**.56**
259952EX	NTE5806	DO-41	Rectifier	600V	3A	**.94**	**.92**
259961EX	NTE5809	DO-41	Rectifier	1000V	3A	**1.39**	**1.31**
259979EX	NTE5812	T6L	Rectifier	100V	6A	**.91**	**.87**
259987EX	NTE5814	T6L	Rectifier	400V	6A	**1.52**	**1.45**
259995EX	NTE5815	T6L	Rectifier	600V	6A	**2.49**	**2.27**
260005EX	NTE5817	T6L	Rectifier	1000V	6A	**2.28**	**2.14**
260013EX	NTE5870	DO-4	Rectifier	50V	12A	**2.60**	**2.49**
260030EX	NTE6013	TO-220	Rectifier	600V	12.7A isolated	**3.77**	**3.69**
260048EX	NTE6240	TO-220	Rectifier	200V	16A	**3.94**	**3.77**
259653EX	NTE166	BR8D	Bridge rectifier	100V	2A	**1.10**	**1.06**
259661EX	NTE167	BR8D	Bridge rectifier	200V	2A	**1.75**	**1.69**
259670EX	NTE168	BR8D	Bridge rectifier	400V	2A	**1.93**	**1.86**
259688EX	NTE170	BR8D	Bridge rectifier	1000V	2A	**2.82**	**2.79**
259696EX	NTE5304	WOM	Bridge rectifier	400V	1.5A	**1.32**	**1.28**
259709EX	NTE5305	WOM	Bridge rectifier	600V	1.5A	**1.47**	**1.42**
259717EX	NTE5312	GBPC	Bridge rectifier	100V	8A	**3.88**	**3.70**
259725EX	NTE5313	GBPC	Bridge rectifier	200V	8A	**3.82**	**3.65**
259733EX	NTE5314	GBPC	Bridge rectifier	400V	8A	**3.93**	**3.74**
259741EX	NTE5322	TB35	Bridge rectifier	200V	25A	**5.64**	**5.38**
259750EX	NTE5326	TB35	Bridge rectifier	600V	25A	**7.59**	**7.20**
259768EX	NTE5329	BR8D	Bridge rectifier	200V	6A	**3.63**	**3.46**
259776EX	NTE5332	DIP-4	Bridge rectifier	600V	1A	**1.52**	**1.45**
259784EX	NTE5340	Non-Std	Bridge rectifier	200V	40A	**9.00**	**8.57**
259792EX	NTE5342	Non-Std	Bridge rectifier	600V	40A	**11.37**	**10.79**
259805EX	NTE5344	Non-Std	Bridge rectifier	1000V	40A	**12.78**	**12.29**

Silicon Controlled Rectifiers (SCR)

Part No.	Cross Ref.	Pkg.	Description	1	10
260056EX	NTE5401	TO-92	60 VRM 0.8A	**$.97**	**$.91**
260064EX	NTE5402	TO-92	100 VRM 0.8A	**.97**	**.89**
260072EX	NTE5404	TO-92	200 VRM 0.8A	**1.33**	**1.29**
260081EX	NTE5457	TO-202	400 VRM 4A	**1.33**	**1.29**
260099EX	NTE5458	TO-202	600 PRV 4A	**2.03**	**1.99**

Diacs/Triacs/Sidacs/TVS

Part No.	Cross Ref.	Pkg.	Description	1	10
261278EX	NTE4900	DO-35	TVS, 5.0V	**$2.18**	**$2.15**
260110EX	NTE6404	TO-89	SUS, SI, 1.0A	**8.86**	**8.79**
259400EX	NTE6408	DO-35	Diac	**.94**	**.90**
260101EX	NTE6419	Non-Std	Sidac, 110-125V	**2.06**	**1.99**
261147EX	NTE5629	TO-202	Triac, 400 VRM, 4A	**1.98**	**1.89**
261155EX	NTE5656	TO-9	Triac, 400 VRM, 0.8A	**1.08**	**1.05**

Varistors (MOV)

Part No.	Cross Ref.	Pkg.	Description	1	10
261286EX	NTE1V020	8.5mm	$20V_{RMS}$, 20VDC, 1.5 joules	**$1.03**	**$.99**
261294EX	NTE1V130	8.5mm	$135V_{RMS}$, 180VDC, 10 joules	**1.08**	**1.03**
261307EX	NTE2V130	16mm	$135V_{RMS}$, 180VDC, 39 joules	**1.85**	**1.79**
261315EX	NTE2V250	16mm	$240V_{RMS}$, 320VDC, 70 joules	**2.66**	**2.54**
261323EX	NTE524V25	23mm	$240V_{RMS}$, 320VDC, 129 joules	**2.40**	**2.35**

Thermal Fuses

Part No.	Cross Ref.	Description	Dimensions	1	10
261163EX	NTE8076	TCO 77˚C, 171˚F	3.2"L x 1.6"Dia.	**$1.13**	**$1.09**
261171EX	NTE8085	TCO 87˚C, 189˚F	3.2"L x 1.6"Dia.	**1.27**	**1.23**
261180EX	NTE8090	TCO 93˚C, 200˚F	3.2"L x 1.6"Dia.	**1.13**	**1.09**
261198EX	NTE8096	TCO 98˚C, 208˚F	3.2"L x 1.6"Dia.	**1.13**	**1.09**
261201EX	NTE8098	TCO 100˚C, 212˚F	3.2"L x 1.6"Dia.	**1.13**	**1.09**
261219EX	NTE8103	TCO 104˚C, 220˚F	3.2"L x 1.6"Dia.	**1.13**	**1.09**
261227EX	NTE8118	TCO 121˚C, 250˚F	3.2"L x 1.6"Dia.	**1.13**	**1.09**
261235EX	NTE8139	TCO 141˚C, 286˚F	3.2"L x 1.6"Dia.	**1.27**	**1.23**
261243EX	NTE8181	TCO 184˚C, 364˚F	3.2"L x 1.6"Dia.	**1.13**	**1.09**
261251EX	NTE8213	TCO 216˚C, 421˚F	3.2"L x 1.6"Dia.	**1.13**	**1.09**
261260EX	NTE8242	TCO 240˚C, 464˚F	3.2"L x 1.6"Dia.	**1.13**	**1.09**

LEDs

Part No.	Cross Ref.	Pkg.	Description	1	10
260363EX	NTE1866	SIP-9	5-point LED VU scale bar level meter driver	**$2.01**	**$1.96**
260371EX	NTE3024*	T1¾	Green 5mm, 2.1VF@20mA, 8.7mcd@10mA, 565nm	**1.31**	**1.24**

* 2 ea. per pack

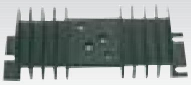
Optoisolators

Part No.	Cross Ref.	Pkg.	Description	1	10
260380EX	NTE3040	DIP-6	NPN transistor output, 1.5V @ 10mA	**$1.73**	**$1.68**
260398EX	NTE3041	DIP-6	NPN transistor output, 1.15V @ 10mA	**1.75**	**1.69**
260401EX	NTE3044	DIP-6	NPN darl. trans. output, 1.15V @ 10mA	**2.33**	**2.25**
260419EX	NTE3047	DIP-6	Triac driver output, 1.15V @ 10mA	**2.41**	**2.04**

NTE Hardware

Part No.	Cross Ref.	Description		1	10
259151EX	NTE303	1 gram tube of heat sink compound (5/pk.)		**$1.63**	**$1.55**
259194EX	TP0001	TO-3	Thermo pad (5/pk.)	**1.39**	**1.29**
259282EX	TP0002	TO-66	Thermo pad (5/pk.)	**1.15**	**1.12**
259207EX	TP0003	DO-5	Thermo pad (5/pk.)	**.82**	**.78**
259215EX	TP0004	TO-126	Thermo pad (5/pk.)	**.69**	**.65**
259223EX	TP0005	TO-218	Thermo pad (5/pk.)	**1.36**	**1.33**
259231EX	TP0006	TO-220	Thermo pad (5/pk.)	**1.01**	**.95**
259240EX	TP0007	DO-5	Thermo pad (5/pk.)	**1.03**	**.98**
259258EX	TP0008	TO-3	Thermo pad (5/pk.)	**1.15**	**1.12**
259266EX	TP0009	TO-36	Thermo pad (5/pk.)	**1.38**	**1.35**
259274EX	TP0010	TO-3PML	Thermo pad (5/pk.)	**2.41**	**2.20**
259178EX	NTE416	DIP-16	16-pin DIP socket	**2.11**	**1.85**
259186EX	NTE423	DIP-8	8-pin DIP socket	**1.10**	**1.06**
259160EX	NTE422	TO-220	Insulator kit	**1.01**	**.97**

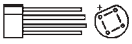
See page 14 for Heat Sinks, Mounting Kits and Heat Sink Compound.



Call for pricing on quantities over 5000 – we carry major manufacturers.

Any transistor and diode may be supplied in ammo style tape by special order – 1000 piece min.

SALE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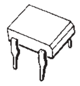
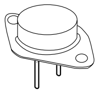
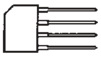
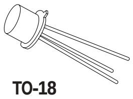
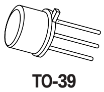

4-Pin DIP


TO-3


KBP


TO-18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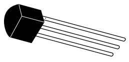
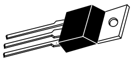
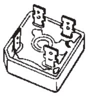
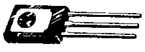

TO-92


TO-220


179-01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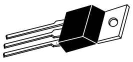
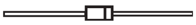

TO-220/AB


DO-27A/DO-41/DO-35

Transistors

✳ Prepackaged: order in increments of 10

Part No.	Product No.	Mfr.	Package	Desc.	Vceo	Min. h_{FE} @ Ic	Pricing	
							1	10
33048EX	TIP31A	✧	TO-220	NPN	60	10 @ 3A	**$.49**	**$.39**
33064EX	TIP32A	✧	TO-220	PNP	60	10 @ 3A	**.39**	**.36**
179240EX	TIP102	FSC	TO-220	NPN	100	1k @ 3A	**.53**	**.47**
32993EX	TIP120	✧	TO-220	NPN	60	1k @ 3A	**.49**	**.45**
179291EX	TIP120	FSC	TO-220	NPN	60	1k @ 3A	~~$.53~~ **.41**	**.37**
120416EX	TIP122	✧	TO-220	NPN	100	1k @ 3A	**.38**	**.32**
38228EX	2N2219A	✧	TO-39	NPN	40	100 @ .15A	~~$.59~~ **.41**	**.37**
28628EX	PN2222	✧	TO-92	NPN	30	100 @ .15A	✳	**.065**
38236EX	2N2222A	✧	TO-18	NPN	40	100 @ .15A	**.39**	**.35**
28644EX	PN2907	✧	TO-92	PNP	40	100 @ .15A	✳	**.125**
38279EX	2N2907A	✧	TO-18	PNP	60	100 @ .15A	**.36**	**.34**
25831EX	MJE2955T	✧	TO-220	PNP	60	20 @ 4A	~~$.55~~ **.51**	**.44**
38295EX	2N3053	✧	TO-39	NPN	40	25 @ .15A	**.47**	**.43**
38308EX	2N3055	✧	TO-3	NPN	60	15 @ 10A	**.95**	**.85**
25857EX	MJE3055T	✧	TO-220	NPN	60	20 @ 4A	~~$.52~~ **.48**	**.46**
209242EX	2N3771	✧	TO-3	NPN	40	15 @ 15A	**1.89**	**1.75**
38359EX	2N3904	✧	TO-92	NPN	40	100 @ .01A	✳	**.075**
178597EX	2N3904	FSC	TO-92	NPN	40	100 @ .01A	✳	**.09**
178618EX	2N3906	FSC	TO-92	PNP	40	100 @ .01A	✳	**.09**
38421EX	2N4401	✧	TO-92	NPN	40	100 @ .15A	✳	**.07**
38447EX	2N4403	✧	TO-92	PNP	40	100 @ .15A	✳	**.08**
194600EX	2N6059	✧	TO-3	NPN	100	750 @ 6A	**1.59**	**1.55**

✧ Manufacturer varies FSC = Fairchild Semiconductor

Small-Signal High-Voltage

Prepackaged: order in increments of 10 or 100

Part No.	Product No.	Package	Desc.	Vceo	Min. h_{FE}@Ic (mA)	10	100
178546EX	MPSA42	TO-92	NPN	300	40 @ 10	**$.086**	**$.061**

Small-Signal General-Purpose

Prepackaged: order in increments of 10 or 100

Part No.	Product No.	Package	Desc.	Vceo	Min. h_{FE}@Ic (mA)	10	100
178511EX	PN2222A	TO-92	NPN	40	100 @ 150	**$.12**	**$.08**
178520EX	PN2907A	TO-92	PNP	-60	100 @ 150	**.07**	**.046**
38375EX	2N3906	TO-92	PNP	40	100 @ 10	**.05**	**.04**

N-Channel MOSFETs

Part No.	Prod. No.	Mfr.	Package	Drain Source Brkdwn Volt.	Min. On-State DS Current	Pricing	
						1	10
178669EX	2N7000	FSC	TO-92	60VDC	0.2A	**$.23**	**$.19**
209058EX	BUZ72L	✧	TO-220	100VDC	10.0A	**.77**	**.55**
209234EX	IRF510	✧	TO-220	100VDC	5.6A	**.69**	**.59**
209226EX	IRF520	✧	TO-220	100VDC	10.0A	**.55**	**.48**
210518EX	IRF540	✧	TO-220	100VDC	27.0A	**1.05**	**.95**
210542EX	IRF640	✧	TO-220	200VDC	18.0A	~~$.99~~ **.69**	**.65**
184719EX	IRF840	✧	TO-220	500VDC	8.0A	**1.49**	**1.29**

✧ Manufacturer varies FSC = Fairchild Semiconductor

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Full Wave Bridge Rectifiers

Part No.	Product No.	Mfr.	Package	Description	1	10
103018EX	W02G	✧	WO type	200 PRV, 1A	**$.38**	**$.32**
103042EX	DF02M	✧	4-pin DIP	200 PRV, 1A	**.35**	**.30**
103034EX	DF06M	✧	4-pin DIP	600 PRV, 1A	**.32**	**.30**
145429EX	KBP02M	✧	KBP type	200 PRV, 1.5A	~~$.46~~ **.40**	**.35**
25574EX	MDA990-3	✧	179-01	200 PRV, 30A	**3.99**	**3.45**

✧ Manufacturer varies

Triacs

Part No.	Product No.	Mfr.	Package	Description	1	10
140425EX	2N6071A	✧	TO-225AA	200 V_{DRM}, 4A	~~$.49~~ **$.29**	**$.27**
31827EX	SC146M	✧	TO-220	Triac,600 V_{DRM},10A (2N6344)	**1.99**	**1.69**

✧ Manufacturer varies

Rectifiers

Prepackaged: order in increments of 10 or 100

Part No.	Product No.	Mfr.	Package	Description	10	100
35975EX	1N4001	✧	DO-41	50 PRV, 1A	**$.035**	**$.025**
76961EX	1N4002	✧	DO-41	100 PRV, 1A	**.039**	**.025**
76970EX	1N4003	✧	DO-41	200 PRV, 1A	**.035**	**.025**
36011EX	1N4007	✧	DO-41	1000 PRV, 1A	**.038**	**.029**
36265EX	1N5404	✧	DO-27A	400 PRV, 3A	**.10**	**.09**
36273EX	1N5408	✧	DO-27A	1000 PRV, 3A	**.15**	**.11**
35991EX	1N4004	✧	DO-41	400 PRV, 1A	**.04**	**.025**
177949EX	1N5817	✧	DO-204AL	20 PIV, 1A	**.11**	**.09**
177818EX	T6A100L	✧	T6L	1000 PIV, 6A	**.65**	**.59**

✧ Manufacturer varies

Silicon Controlled Rectifiers

Prepackaged: order in increments of 10 or 100

Part No.	Product No.	Mfr.	Package	Description	10	100
119802EX	2N5060	✧	TO-92	25 PRV, 0.8A	~~$.29~~ **$.19**	**$.15**
14761EX	C122M	✧	TO-220	600 PRV, 8A(isolated)	**1.35**	**1.25**

✧ Manufacturer varies

Zener Diodes

Prepackaged: order in increments of 10 or 100

Part No.	Product No.	Mfr.	Package	Description	10	100
178781EX	1N4733A	VSH	DO-41	5.1V @ 49mA 1 W	**$.09**	**$.06**
36097EX	1N4733A	✧	DO-41	5.1V @ 49mA 1 W	**.08**	**.065**
36118EX	1N4734A	✧	DO-41	5.6V @ 45mA 1 W	**.064**	**.05**
36126EX	1N4735A	VSH	DO-41	6.2V @ 41mA 1 W	**.061**	**.049**
36169EX	1N4742A	VSH	DO-41	12.0V @ 21mA 1 W	**.07**	**.055**

✧ Manufacturer varies VSH = Vishay

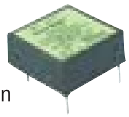
Switching Diodes

Prepackaged: order in increments of 10 or 100

Part No.	Product No.	Mfr.	Package	Description	10	100
179207EX	1N914	VSH	DO-35	100 PRV (Switching)	**$.05**	**$.025**
35967EX	1N3600	✧	DO-35	50 PRV @ 100µa, 200mA	**.045**	**.029**
179215EX	1N4148	VSH	DO-35	100 PRV (Switching)	**.04**	**.03**
36038EX	1N4148	✧	DO-35	75 PRV @ 50µa, 10mA	**.036**	**.027**

✧ Manufacturer varies VSH = Vishay

Black Magic Telephone Ring Generator



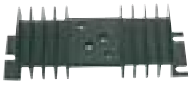
Switching inverter that produces low-frequency alternating current to signal telecom ringers or equivalents.

- Nominal output voltage: 86 Vrms
- No reverse polarity protection

Part No.	Product No.	Frequency	Series Resistor	1	10
145816EX	LBMR12	20Hz	300Ω	**$26.95**	**$24.49**

Heat Sinks

Our TO-3 / TO-218 / TO-220 heat sinks are made from black anodized aluminum (except for P / N 107297EX which is light weight aluminum). They can be mounted horizontally or vertically depending on your applications. P / N 164734EX has mounting clips and can be mounted vertically with solderable mounting tabs.


16512EX

189835EX

More on our website www.Jameco.com

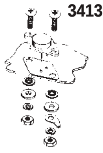
107297EX

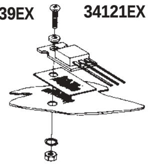
158051EX

Thermalloy **IERC** **AAVID** **Wakefield**

Part No.	Mfr. Cross Reference No.	Type	Watts	Size (L" x W" x H")	Pricing 1	10
16512EX	DUDE4	TO-3	30.0	4.8 x 1.5 x 1.3	**$2.95**	**$2.75**
189835EX	635-5B2	TO-3	8.0	1.9 x 1.4 x 0.5	**.95**	**.86**
158051EX	577102B00000	TO-220	2.0	.75 x .52 x .38	**.39**	**.35**
107297EX	PSC2-U (cup-style)	TO-220	1.5	0.8 x 1.0 x 0.4	**.49**	**.45**
164734EX	THM6072	TO-220	5.0	1.4 x 1.8 x 0.4	**.49**	**.45**

Heat Sink Mounting Kits


34139EX


34121EX

- TO-3 and TO-220 heat sink insulator assemblies
- 10 kits per pack

Part No.	Type	Description	1	10
34139EX	TO-3	12-piece kit	**$3.95**	**$3.59**
34121EX	TO-220	5-piece kit	**3.95**	**3.55**

Heat Sink Compound

Improves transfer of energy across the metal to metal interface between transistor or rectifier to heat sink. • Opaq. white

Part No.	Product No.	Weight	1	10
167249EX	THM250	2 oz.	**$9.95**	**$8.96**

LEDs and Displays

High-Output LEDs

- Typical DC forward current 20mA

See page 15 for LED Mounting Hardware

Fig. 1

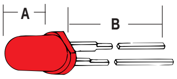


Fig. 2

Part No.	Mfr. Cross Reference No.	Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions A"	B"	Lead Spacing	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Pricing 1	10
217525EX	MCDPW-3004C	1	White	Water clear	T1	.119/3	0.18	1.00	0.10	3.8 @ 20	3000 @ 20	—	**$2.99**	**$2.85**
142893EX	CLP1509	1	White	Water clear	T1 $^{3}/_{4}$	.197/5	0.34	0.79	0.08	3.6 @ 20	3700 @ 20	—	**3.95**	**3.59**
183231EX	T18W133196	1	White	Water clear	T1 $^{3}/_{4}$	.197/5	0.30	1.06	0.08	3.6 @ 20	3000 @ 20	—	**2.95**	**2.65**
183222EX	MCDL513SBC4	1	Blue	Water clear	T1 $^{3}/_{4}$	.197/5	0.29	1.02	0.08	5.0 @ 20	3000 @ 20	470	**3.25**	**2.95**
183214EX	MCDPG503PCI	1	Green	Water clear	T1 $^{3}/_{4}$	.197/5	0.30	1.04	0.08	3.5 @ 20	2200 @ 20	515	**2.95**	**2.65**
131895EX	TLSH180P	1	Orange	Water clear	T1 $^{3}/_{4}$	.197/5	0.39	0.80	0.10	2.1 @ 20	7000 @ 20	623	**2.49**	**2.19**
197683EX	BVT5E1QT4ER	1	Orange Red	Water clear	T1 $^{3}/_{4}$	.197/5	0.29	1.08	0.08	2.3 @ 20	4650 @ 20	634	**.69**	**.59**
152864EX	LT1873-81	1	Super Brt.	Water clear	T1 $^{3}/_{4}$	.197/5	0.34	0.89	0.10	1.7 @ 20	1000 @ 20	660	**.29**	**.24**
197616EX	BVU5E1QH4E	1	Red	Water clear	T1 $^{3}/_{4}$	.197/5	0.30	1.05	0.08	1.8 @ 20	2180 @ 20	630	**.39**	**.35**
215597EX	LT2K33-81-UC9T	1	Yellow	Water clear	T1 $^{3}/_{4}$	.197/5	0.31	0.89	0.10	2.2 @ 20	5000 @ 20	590	**.59**	**.55**
197675EX	BVT5E1TT4E	1	Yellow	Water clear	T1 $^{3}/_{4}$	.197/5	0.30	1.08	0.08	2.3 @ 20	2800 @ 20	592	**.45**	**.36**
197641EX	BVT529T13E	2	Yellow	Yellow transparent	Oval	.170/.220	0.29	1.04	0.08	2.3 @ 20	7800 @ 20	590	**.69**	**.62**

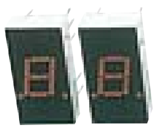
LED Displays

The general advantages of LED displays compared to incandescent types include:

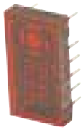
- Longer lifetime (averaged more than 300,000 hours) • Lower power consumption
- Compact size suitable for instrumentation and graphic representations

Soldering:

- Soldering bath: not more than 5 seconds @ 260°C
- Soldering iron: not more than 3 seconds @ 300°C under 30W


24740EX & 24782EX

17187EX


32951EX

118906EX

7-Segment Displays

Part No.	Mfr. Cross Reference No.	Character Height	Illuminated Color	Buss Polarity*	Pins/ Leads	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Decimal Point #	Pricing 1	10
24740EX	LSD3221-11	.300"	Red	CA	11	2.1 @ 20	2.5 @ 20	697	LHDP	**$.79**	**$.72**
24782EX	LSD3211-11	.300"	Red	CC	10	2.1 @ 20	2.5 @ 20	697	RHDP	**.89**	**.75**
17187EX	LSD5051-11	.500"	Red	CC	10	2.1 @ 20	0.9 @ 20	697	RHDP	**.89**	**.80**
17208EX	LSD5061-11	.500"	Red	CA	10	2.1 @ 20	0.9 @ 20	697	RHDP	**.89**	**.75**
24715EX	LDD5121-20	.560"	Red	2-digit CA	18	2.1 @ 20	0.8 @ 20	697	RHDP	**1.25**	**1.05**
97199EX	LSD23265-10	2.24"	Red	CA	10	1.7 @ 20	21 @ 20	660	RHDP	**5.75**	**5.19**
105591EX	LSD40054-20†	4.0"	Orange Red	CA	10	2.0 @ 20	18 @ 20	635	RHDP	**9.49**	**8.29**

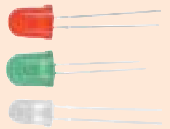
† P/N 105591: 5 diodes per segment

SALE

Dot Matrix Displays

Part No.	Mfr. Cross Reference No.	Jameco Socket Number	Character Height	Illuminated Color	Buss Polarity*	Pins/ Leads	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Decimal Point #	Pricing 1	10
173833EX	HP5082-7300	—	.290"	Red	4x7 Numeric	8	5.0 @ 170	.03 @ 20	660	RHDP	**$4.95**	**$4.46**
32951EX	TIL311	37161EX	.300"	Red	4x7 Hex character	11	5.0 @ 5	0.1 @ 5	660	—	**16.95**	**14.35**
118906EX	LTP747R	37161EX	.680"	Orange Red	5 x 7 AC/CR	12	1.7 @ 20	0.2 @ 20	655	—	**1.95**	**1.79**
183265EX	LMD5821ASR-20	—	2.3"	Red	5 x 8 CC/AR	14	1.7 @ 20	12 @ 20	660	—	**4.95**	**4.45**

* CA-Common Anode/CC-Common Cathode/AC-Anode Column/CR-Cathode Row/AR-Anode Row # LHDP-Left Hand Decimal Point / RHDP-Right Hand Decimal Point



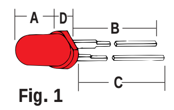


Fig. 1

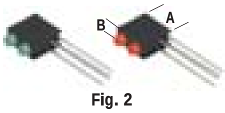


Fig. 2

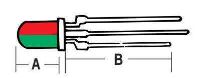


Fig. 3

Standard-Output LEDs

✳ Prepackaged: order in increments of 10

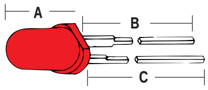
Part No.	Mfr. Cross Ref. No.	Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions A"	B"	Lead Spacing	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Pricing 1	10
34657EX	LY2040	1	Yellow	Yellow diffused (XC209Y)	T1	.119/3	0.16	0.68	0.08	2.3 @ 20	15 @ 10	585	✳	**$.13**
114673EX	LH2043	1	Red	Water clear (BR209)	T1	.119/3	0.14	0.98	0.07	2.3 @ 20	12 @ 10	697	✳	**.19**
94529EX	LH2040	1	Red	Red diffused (XC209RB)	T1	.119/3	0.18	1.04	0.07	2.3 @ 20	4.5 @ 10	697	✳	**.19**
175679EX	LVG2041	1	Green	Green transparent	T1	.119/3	0.17	0.69	0.08	2.2 @ 20	129 @ 20	565	✳	**.15**
34606EX	LSG2040	1	Green	Green diffused (XC209G)	T1	.119/3	0.13	1.05	0.08	2.2 @ 20	15 @ 10	560	✳	**.15**
136274EX	LA44B/2G	2	Green	Green diffused (dual)	T1	.119/3	0.38	0.17	0.10	2.3 @ 20	15 @ 10	565	**.49**	**.45**
137411EX	LVB2040	1	Blue	Blue diffused	T1	.119/3	0.21	0.98	0.10	4.8 @ 20	10 @ 20	430	**2.49**	**2.25**
34825EX	LY3330	1	Yellow	Yellow diffused (XC556Y)	T1 3/4	.197/5	0.30	0.82	0.07	2.3 @ 20	12 @ 10	585	✳	**.19**
11797EX	QLMP-D141	1	Red	Water clear (BR5704)	T1 3/4	.197/5	0.29	1.05	0.07	2.0 @ 20	350 @ 20	660	✳	**.19**
94511EX	LH3330	1	Red	Red diffused (XC556RB)	T1 3/4	.197/5	0.31	0.81	0.08	2.3 @ 20	3 @ 10	697	✳	**.17**
134332EX	LT18B3-81UR	1	Blue	Water clear	T1 3/4	.197/5	0.30	0.93	0.10	3.8 @ 20	350 @ 20	428	**2.65**	**2.45**
138691EX	LVB3330	1	Blue	Blue diffused	T1 3/4	.197/5	0.34	0.98	0.08	4.8 @ 20	10 @ 20	430	**2.14**	**2.04**
34761EX	LG3330	1	Green	Green diffused (XC556G)	T1 3/4	.197/5	0.31	0.79	0.09	2.3 @ 20	12 @ 10	565	✳	**.15**
34711EX	LEG3362	1	Red/Green	White diffused bi-color/bi-state[1]	T1 3/4	.197/5	0.30	1.01	0.09	2.3 @ 20	7.5 & 8 @ 20	635/565	**.33**	**.28**
34673EX	LHG3392	3	Red/Green	White diff. bi-color/tri-state	T1 3/4	.197/5	0.30	1.02	0.03	2.3 @ 20	3 & 12 @ 10	697/565	**.24**	**.22**

[1] Reverse polarity to change color

LEDTECH LEDs

- Typical DC forward current 20mA

Ledtech is a QS9000 and ISO-9000 Certified Company



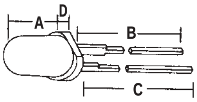
152805EX

✳ Prepackaged: order in increments of 10

Part No.	Product No.	Emitting Color	Lens/Feature Description	LED Size	Dia. (inch/mm)	Dimensions (Inches) A	B	C	Lead Spacing	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Pricing 1	10
152768EX	LT0324-41	Green	Green clear	T1	.119/3	0.20	0.89	0.95	0.10	2.1 @ 20	20 @ 20	567	✳	**$.12**
152750EX	LT0344R-41	Orange Red	Red clear	T1	.119/3	0.20	0.89	0.95	0.10	2.1 @ 20	23.5 @ 10	635	✳	**.19**
152805EX	LT1873-81-UR	Red Ultra Brt.	Water clear	T1 3/4	.197/5	0.34	0.89	0.95	0.10	1.9 @ 20	2000 @ 20	660	**.29**	**.25**

Infrared Emitters

- Use for remote control and/or for fiber optics
- **P/N 133946EX:** Can be used w/ cameras, see pg 85 (peak emission wavelength: 940nm @ If 20mA)

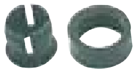


106526EX

Part No.	Mfr. Cross Ref. No.	Description	Size	Diameter inch/mm	Dimensions (inches) A	B	C	D	Vf @ If	nm	mWatts	Pricing 1	10
106526EX	TLN110	Infrared emitter diode (GaAs)	T1¾	0.200/5	0.34	0.78	0.84	0.04	1.2V @ 20mA	940	9	**$.39**	**$.29**
133946EX	SLI-0308CP	Infrared emitter diode (GaAs)	T1	0.12/3	0.22	0.98	1.00	0.03	1.7V @ 50mA	940	200	**.62**	**.53**

LED Mounting Hardware

95513EX


23077EX

95521EX

Prepackaged: order in increments of 10 or 100

Part No.	Mfr. Cross Ref. No.	Description	Color	Mounting Hole Dia.	Panel Thickness	Pricing 10	100
95513EX	LMH100	T1 snap-in	Black	.185"	Up to .070"	**$.08**	**$.07**
23077EX	LMH200	T1¾ ring & clip	Black	.257"	Up to .125"	**.15**	**.135**
95521EX	LMH250	Rect. snap-in	Black	.306" x .202"	Up to .092"	**.20**	**.17**

Neon Lamps

✳ Prepackaged: order in increments of 5 or 10

Part No.	Mfr. Cross Ref. No.	Fig.	Description	Voltage (VAC)	Current (mA)	Pricing 1	5	10
27351EX	A1A (NE-2)	1	Wire terminal	65-120	0.5	✳	**$.35**	**$.31**
210243EX	A1B	1	Wire terminal	65-120	0.3	✳	**.28**	**.25**
210251EX	A1C	1	Wire terminal	65-120	1.2	✳	**.39**	**.29**
210260EX	A9A (NE-2E)	1	Wire terminal	65-120	0.7	✳	**.29**	**.25**
210278EX	B1A (NE-51)	2	T3 1/4 miniature bayonet	65-120	0.3	**.79**	**.75**	**.69**
210286EX	B2A (NE-51H)	2	T3 1/4 miniature bayonet	65-120	1.2	**.69**	**.59**	**.49**

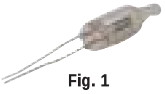


Fig. 1

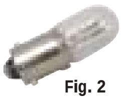


Fig. 2

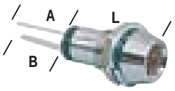
See page 20 for Incandescent Lamps.

Panel Mount LED Indicators

- Easy panel installation
- Panel/status/ instrument indicators
- Vf @ If: 2V @ 20mA
- Color: red

141129EX: LED size: T1
141137EX: LED size: T1¾

- Chrome housing
- Mounting hole: .24"
- Mounting hole: .31"



Part No.	Mfr. Cross Ref. No.	Dimensions (in.) L	A	B	Pricing 1	10
141129EX	L913RD	.56	.39	.32	**$1.09**	**$.81**
141137EX	L917RD	.70	.55	.47	**.89**	**.79**

Neon Panel Mount Lamps

- Output voltage: *12V; †120V
- Mounting hole diameter: 5/8" (16mm)
- Solder terminals: 0.196" (5mm)

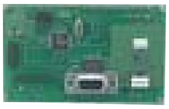
215802EX

Part No.	Product No.	Color	1	10
215714EX	R9-71B-05-12V-R*	Red	**$1.79**	**$1.59**
215722EX	R9-71B-05-12V-Y*	Yellow	**1.79**	**1.59**
215731EX	R9-71B-05-12V-G*	Green	**1.79**	**1.59**
215802EX	R9-71N-05-120V-R†	Red	**1.79**	**1.59**
215811EX	R9-71N-05-120V-Y†	Yellow	**1.79**	**1.59**
215829EX	R9-71N-05-120V-G†	Green	**1.79**	**1.59**

COLOR CODE LEGEND...
NEW SALE REFURBISHED CLOSEOUT

20 x 4 Serial LCD Modules

150957EX



157323EX

- 20 characters x 4 line display with large digit mode
- Backlight control, bar graphs, large digits, multiple displays, software contrast control, auto line wrapping and auto scroll feature
- Backlight supply current: 90mA typical
- Serial input at 1200–19,200bps (jumper selectable)
- Connect 16 modules using the same 2 wire interface
- Display size: 3.0"L x 1.0"W

Includes: Manual and software

150957EX: 20 x 4 Serial LCD Module

- Power requirement: 5VDC @ 10mA typical (recommend P/N 164101EX, pg 23)

157323EX: 20 x 4 Serial LCD Module with keypad Interface

- Power requirement: 5VDC @ 16mA typical (recommend P/N 164101EX, pg 23)

Part No.	Product No.	Description	Module Size (LxWxT)	1	10
150957EX	LCD2041	LCD module	3.9" x 2.4" x 0.7"........	**$54.19**	**$52.69**
157323EX	LK204-25	Module w/ interface	3.7" x 2.4" x 1.1"	**72.95**	**71.15**

16 Characters x 2 Lines Serial LCD Module

- Backlight control, bar graphs, large digits, multiple displays, software contrast control, auto line wrapping, and auto scroll feature
- Serial input at 1200–19,200bps (jumper selectable)
- Connect 16 modules using same 2 wire interface
- Backlight supply current: 40mA typical
- Display size: 2.5"L x 0.7"W
- Power requirement: 5VDC @ 9mA (recommend P/N 164101EX, pg 23)

Includes: Manual and software

Part No.	Product No.	Description	Module Size (LxWxT)	1	10
174166EX	LK162-12	16 x 2 w/ interface	3.2" x 1.5" x 0.8"........	**$52.39**	**$51.19**

0.6" High 3½-Digit LCD Digital Panel Meters

175951EX

- Automatic polarity indication
- Input impedance: >100MΩ
- Input Ranges: 200mV, 20V, 200V, 500V
- Bezel • Accuracy: ±0.5%
- Dimensions: 2.7"L x 1.7"W
- Supply voltage: 8-12VDC (recommend 9V battery P/N 151095EX, pg 30)

Part No.	Description	1	10
108388EX	PM-428	**$12.95**	**$11.95**
175951EX	"1999" LCD DPM	**12.95**	**11.95**
146835EX	"1999" LCD DPM backlit display	**19.95**	**17.99**

40 x 2 Parallel LCD Module with Backlight

- 40 x 2 character display
- Control chip HCD44780
- Character font: 5 x 8 dots
- Column driver: KS0063B
- Backlight: yellow-green
- Display size: 5.81"L x 0.45"W
- Supply voltage (logic): 5VDC @ 5mA
- Module size: 7.2"L x 1.4"W x 0.4" Thick

SALE

Part No.	Description	1	10
215159EX	40 x 2 parallel LCD	$29.99	$25.49

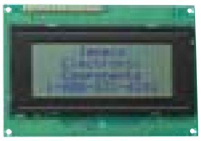
LCD Parallel Display

16 Characters x 2 Lines

- 14-pin/terminals
- Controller: KS0066U or equivalent
- Character font size: 0.125"W x 0.200"H
- Max. input voltage: 5.3VDC
- 8-bit interface data bus • Display size: 2.5"L x 0.7"W
- Operating input voltage: 5VDC (recommend P/N 164101EX, pg 23)

Part No.	Product No.	Module Size (LxWxT)	1	10
171715EX	AC162A	3.4" x 1.2" x 0.5"	**$19.95**	**$17.95**

16 x 4 Parallel LCD Display



- 4-bit or 8-bit parallel interface • 5 x 8 dot matrix
- Control LSI HD44780 or equivalent and column driver MSM5259 or equivalent
- Display size: 2.4"L x 1.0"H
- Module size: 3.4"L x 2.4"W x 0.3"T

Part No.	Description	1	10	25
210761EX	16 x 4 LCD display	**$22.95**	**$19.95**	**$18.69**

Scott Edwards Electronics, Inc.

Serial LCD Modules

Includes instruction codes for character gen., cursor control, printing, etc. Examples for Stamps in PBASIC included.

16 characters x 2 lines Integrated Display

Ideal for use w/ BASIC Stamps (pg 92), 80C52-BASIC controllers (pg 7) and PCs!

- Terminal style 1200–9600bps serial input with 16-byte input buffer
- EEPROM storage of settings, six custom characters, and a splash screen
- Serial control of the standard LED backlight
- Low current draw; 5mA (backlight off) to 40mA (backlight on and bright)
- Power requirement: 4.8 – 5.5VDC @ 5mA (recommend P/N 164101EX, pg 23)

Part No.	Product No.	Description	Module Size (LxWxT)	1	10
150990EX	ILM-216L	LCD module	3.2" x 2.0" x 0.5"	**$48.95**	**$44.09**

16 characters x 2 lines LCD Serial Backpack®

- High-contrast supertwist display
- Serial "backpack" accepts RS-232, or inverted CMOS, TTL at 2400 or 9600bps
- Power requirement: 4.8 – 5.5VDC @ 3mA (recommend P/N 164101EX, pg 23)
- Connector: 5-pin header (recommend P/N 163686EX, pg 39)

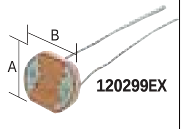
Part No.	Product No.	Description	Module Size (LxWxT)	1	10
133129EX	BPI-216N	LCD module	3.1" x 1.4" x 0.7"	**$59.95**	**$53.99**

40 characters x 4 lines LCD Serial Backpack®

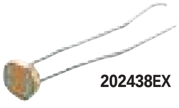
- High-contrast supertwist display with unique "big character": backlit mode – prints 1" numbers and letters automatically
- Serial input at 1200, 2400, 4800 or 9600bps
- Power requirement: 5VDC @ <10mA (recommend P/N 164101EX, pg 23)
- Module size: 7.5"L x 2.2"W x 0.9"T

Part No.	Product No.	Description	1	10
136485EX	BPP-440L	40 x 4 serial LCD display	**$169.95**	**$152.95**

CdS Photocells • Applications include: auto-focus lenses, exposure meters, contrast controls for TVs, dimmer or light switches, flame detectors, electronic toys, street lamp switches, optocouplers • Soldering: 230°C for 3 seconds • Cadmium Sulfide (CdS) • Operating temperature: -30°C to +70°C • Generate variable signal based on detection of light levels



120299EX

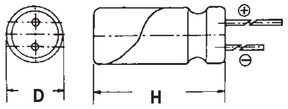


202438EX

Part No.	Mfr. Cross Ref. No.	Rating		Resistance (Ω)		Size (inches)		Lead Spacing (inches)	Lead Length (inches)	Pricing	
		Vp	mW	Dark	Light	A	B			1	10
136055EX	CDST08	50	200	100k	10k	0.40	0.44	0.30	1.50	**$.89**	**$.79**
120310EX	CDS0029004	150	90	2M	27k	0.14	0.17	0.10	1.02	**1.45**	**1.20**
202391EX	CDS0029203	150	90	10M	5k	0.14	0.17	0.10	1.02	**1.49**	**1.35**
202403EX	CDS0018001	150	100	200k	3k	0.17	0.20	0.13	1.02	**1.49**	**1.35**
202438EX	CDS0037004	200	150	500k	15k	0.25	0.29	0.20	1.02	**1.49**	**1.29**
120301EX	CDS0037001	200	150	300k	3k	0.25	0.29	0.20	1.02	**1.79**	**1.59**
120299EX	CDS0045001	350	400	300k	8k	0.37	0.43	0.30	1.44	**1.79**	**1.59**
202454EX	CDS0045003	350	400	1M	12k	0.37	0.43	0.30	1.44	**1.69**	**1.55**

Aluminum Radial-Lead Electrolytic Capacitors

General purpose low voltage 85°C (A); HT Type 105°C (B) ±20%



Operating temperature range		-40°C to +85°C (A); -40°C to +105°C (B)
Leakage Current (20°C)	After 1 min.	0.03CV or 4μA, whichever is greater
	After 2 min.	0.01CV or 3μA, whichever is greater

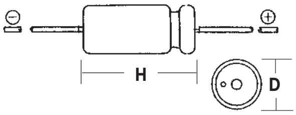
✳ Prepackaged: order in increments of 10

Part No.	Mfr. Cross Reference No. †	Op. Temp	Value (μF)	Voltage (V)	Size (mm)* D x H	Pricing 1	10
94160EX	5R1/50	A	1	50	4 x 5	✳	$.12
29831EX	R1/50	A	1	50	5 x 11	✳	.057
93729EX	R2.2/50	A	2.2	50	5 x 11	✳	.038
135183EX	R3.3/50	A	3.3	50	5 x 11	✳	.05
31000EX	R4.7/50	A	4.7	50	5 x 11	✳	.038
94211EX	5R10/25	A	10	25	4 x 5	✳	.13
94220EX	5R10/35	A	10	35	5 x 5	✳	.09
29891EX	R10/50	A	10	50	5 x 10	✳	.06
198942EX	R22J/35	A	22	35	5 x 11	✳	.035
198926EX	R33J/25	A	33	25	5 x 11	✳	.045
93745EX	R33/50	A	33	50	6 x 11	✳	.055
198951EX	R47J/35	A	47	35	5 x 10	✳	.05
94289EX	5R100/16	A	100	16	6 x 5	✳	.15
198969EX	R100J/35	A	100	35	6.3 x 11	✳	.07
31181EX	R470/25	A	470	25	10 x 16	✳	.12
30015EX	R1000/16	A	1000	16	13 x 21	✳	.16
93833EX	R1000/25	A	1000	25	12 x 20	✳	.25
158297EX	R1000B25	B	1000	25	10 x 17	.35	.29
158377EX	R1000B35	B	1000	35	13 x 21	.49	.45
93841EX	R1000/50	A	1000	50	16 x 26	.52	.46
199110EX	R1000J/100	A	1000	100	18 x 40	3.19	2.49
30533EX	R2200/25	A	2200	25	16 x 36	.55	.49
198985EX	R2200J/35	A	2200	35	16 x 25	1.39	1.25
158431EX	R2200B50	B	2200	50	16 x 31	.99	.89
93850EX	R4700/25	A	4700	25	18 x 35	.99	.85
199005EX	R4700J/35	A	4700	35	18 x 35.5	1.35	1.25
163301EX	R4700/50	A	4700	50	22 x 42	1.99	1.79
31510EX	R6800/16	A	6800	16	18 x 36	.99	.78

†**RADIAL CAPACITOR CROSS REFERENCES** *Capacitor dimensions and lead spacing may vary
Elna: RC2/RE2; **IC:** RAR/RSS; **Marcon:** SEM/SSM; **Nichicon:** LB/VX/USA/SR/SA; **Rubycon:** MS7/TWSS; **Sprague:** 501D/513D; **UCC:** SME/SRE/SRA/SRG; **Panasonic:** KA/KS/SU

Aluminum Axial-Lead Electrolytic Capacitors

General purpose low voltage 85°C



Operating temperature range	-40°C to +85°C
Leakage Current (After 2 minutes 20°C)	0.02CV or 2μA, whichever is greater

✳ Prepackaged: order in increments of 10

Part No.	Mfr. Cross Ref. No. †	Value (μF)	Voltage (V)	Size (mm)* DxH	Pricing 1	10
10866EX	A1/50	1	50	5 x 13	✳	$.15
93569EX	A2.2/50	2.2	50	6 x 13	✳	.11
10882EX	A10/50	10	50	6 x 12	✳	.15
199267EX	A22J/25	22	25	6 x 12	✳	.20
199355EX	A47J/35	47	35	6.3 x 16	✳	.20
93551EX	A100/35	100	35	8 x 16	✳	.21
93649EX	A1000/35	1000	35	13 x 26	.85	.75
199478EX	A2200J/50	2200	50	18 x 42	2.29	1.93
93681EX	A10000/16	10000	16	22 x 51	2.25	2.05

* Capacitor dimensions may vary
† **AXIAL CAPACITOR CROSS REFERENCES: Elna:** RE2; **IC:** RAR; **Marcon:** SEM; **Nichicon:** LB/VX; **Rubycon:** TWSS; **Sprague:** 501D/513D; **UCC:** SME; **Panasonic:** SU

Ceramic Disc Capacitors (±20%)

25 and 50 Volt, Z5U Temperature Coefficient

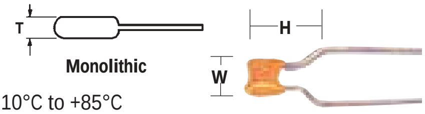
Operating temperature range	+10°C to +85°C
Cap. change over temp. range	+22% to -56%
Dielectric withstanding voltage	2.5 times rated volt. for not < 1 sec.

- **Prepackaged: order in increments of 10 or 100**

Part No.	Mfr. Cross Ref. No.	Capacitance	Voltage (V)	Dia. (mm)*	10	100
15333EX	DC10	10pF	50	5	$.07	$.05
15405EX	DC22	22pF	50	6	.07	.05
15190EX	DC.001	.001μF	50	6	.06	.05
97341EX	DC.0022/1K20	.0022μF	1000	11	.22	.18
15229EX	DC.01	.01μF	50	6	.06	.04
15253EX	DC.047	.047μF	50	8	.084	.069
151116EX	DC.1/25	.1μF	25	6	.14	.13
15270EX	DC.1	.1μF	50	8	.15	.13

*Capacitor dimensions and lead spacing may vary

Monolithic Ceramic Capacitors (±20%) (Z5U Series)



Applications:

- Data processing
- Communications engineering

Operating temperature range: -10°C to +85°C

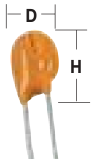
✳ Prepackaged: order in increments of 10

Part No.	Mfr. Cross Ref. No.	Capacitance	Voltage (V)	Size (mm)* W x T x H	Pricing 1	10
81541EX	MD10	10pF	50	3.5 x 2.0 x 3.0	✳	$.10
81533EX	MD22	22pF	50	4.0 x 2.0 x 4.0	✳	.095
81525EX	MD100	100pF	50	3.5 x 2.0 x 3.0	✳	.09
25507EX	MD.01	.01μF	50	3.5 x 2.0 x 3.0	✳	.09
57621EX	MD.047	.047μF	50	2.5 x 2.5 x 3.0	✳	.08
25523EX	MD.1	.1μF	50	6.0 x 2.0 x 4.0	✳	.07
25558EX	MD.47	.47μF	50	4.5 x 2.5 x 4.5	✳	.25
81509EX	MD1	1μF	50	6.0 x 3.0 x 7.0	.48	.43
25540EX	MD.22	.22μF	50V	6.0 x 2.0 x 4.5	✳	.17

*Capacitor dimensions and lead spacing may vary

Dipped Tantalum Capacitors (±10%)

Resin Dipped Solid Tantalum Capacitors



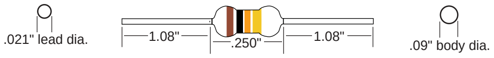
- Flame retardant coating
- Low leakage current
- Designed for entertainment and commercial equipment
- Exceptional temperature stability
- Moisture-resistant

Operating temp. range	-55°C to +85°C (+125°C with derating)
Rated voltage DC	≤ + 85°C

✳ Prepackaged: order in increments of 10

Part No.	Mfr. Cross Ref. No. †	Cap.	Volt.(V)	Size (mm) D x H*	1	10
33486EX	TM.1	.1μF	35	4.5 x 7.0	✳	$.25
33507EX	TM.22	.22μF	35	4.5 x 7.0	✳	.25
33523EX	TM.33	.33μF	35	4.5 x 7.0	✳	.25
154860EX	TM1/25	1μF	25	3.0 x 6.0	.32	.29
33662EX	TM1	1μF	35	4.5 x 7.0	.32	.29
94001EX	TM2.2/16	2.2μF	16	4.5 x 7.0	✳	.19
33734EX	TM2.2	2.2μF	35	4.5 x 7.5	.39	.35
94035EX	TM4.7/16	4.7μF	16	4.5 x 7.5	.47	.38
94043EX	TM4.7/25	4.7μF	25	5.0 x 8.5	.49	.44
33806EX	TM4.7	4.7μF	35	5.5 x 9.0	.45	.42
94060EX	TM10/16	10μF	16	5.0 x 9.0	.45	.39
94078EX	TM10/25	10μF	25	5.5 x 9.0	.59	.50
33689EX	TM10	10μF	35	6.0 x 10.0	.89	.79
94094EX	TM22/16	22μF	16	6.0 x 10.0	.69	.59
94107EX	TM22/25	22μF	25	7.0 x 10.5	1.79	1.59
33785EX	TM33	33μF	25	8.0 x 13.0	2.31	2.09
94123EX	TM47/16	47μF	16	8.0 x 13.0	1.69	1.55
33822EX	TM47	47μF	25	9.0 x 14.5	3.39	3.05
33700EX	TM100	100μF	6.3	7.0 x 10.5	1.19	1.09

*Capacitor dimensions and lead spacing may vary
†**Dipped Tantalum Capacitor Cross References: Panasonic:** EF Series; **AVX:** Tap Series; **Sprague:** 196D and 199D; **Kemet:** T350/ T360; **Mepco:** 49GS; **NEC:** DN; **Nichicon:** 599; **NIC:** NDTM; **Hitachi:** TSD-3; **Matsuo:** 202



Single Resistor Value Pricing: 1/4-Watt Carbon Film Resistors (±5%)

To order: Use 5-digit part number adjacent to ohms in chart below
Values may not be combined for quantity price breaks

99¢/bag
100 piece bags

Pricing (Sold in bags of 100 pieces)				
Specify Part No. & Resistor Value	1 Bag	10 Bags	50 Bags	100 Bags
(see Standard Resistor Value Chart below)	$.99/bag	$.57/bag	$.49/bag	$.46/bag

Assortment Pricing: 1/4-Watt Carbon Film Resistor (±5%)

Assortments may not be combined for quantity price breaks

Part No.	Description (Including bulk pack values)	1	10	25
10719EX	5 ea. of 70 values (every other value from 10 ohm-5.6 MΩ) (350 pcs.)	$9.95	$8.95	$7.95
103165EX	10 ea. of 24 values marked (●) and 50 ea. of 6 values marked (✗) (540 pcs.)	12.95	11.49	9.95
10663EX	100 ea. of 27 values marked (▲) (2,700 pcs.)	24.95	22.49	20.49
10655EX	100 ea. of 160 values (all resistor values in the chart below) (16,000 pcs.)	119.95	107.95	96.95
81832EX	1/4 watt resistor component cabinet kit – 30 values (540 pcs.) see page 37	27.95	24.95	22.49

For more resistor values you can refer to our website @ www.Jameco.com

Standard Resistor Values Chart

Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms
29882EX ▲●	10	30162EX ▲●	150	30963EX ●	390	29663EX ▲✗	1.0k	30314EX ▲●	2.2k	31237EX ▲●	5.1k	30453EX ▲●	22k	30525EX	220k
31106EX ▲●	47	30470EX ▲✗	220	31165EX ▲●	470	29735EX ●	1.2k	30390EX ▲●	2.7k	31270EX ▲●	5.6k	30841EX ▲●	33k	31202EX ▲●	470k
29946EX ▲✗	100	30605EX ▲●	270	31376EX	560	29760EX ▲●	1.5k	30672EX ▲●	3.3k	29911EX ▲✗	10k	31149EX ▲●	47k	29698EX ▲●	1.0M
30082EX	120	30867EX ▲●	330	31499EX ▲●	680	30277EX ▲●	2.0k	31026EX ▲✗	4.7k	30146EX ▲●	15k	29997EX ▲✗	100k	29938EX ▲●	10M

1/8-Watt Carbon Film Resistor (±5%) Assortments

Any 1/8 or 1/2-Watt Resistor value (below) can be special ordered – 1000 pc minimum
• 1/8-W – $12.95/k (bulk) • 1/2-W – $15.95/k (bulk)

1/8 & 1/2-Watt Resistor Assortments Value Chart (Ohms)

10 ✗	150 ✗	330 ✗	680 ✗	2.0k ✗	3.3k ✗	5.6k ✗	15k ✗	33k ✗	470k ✗
47 ✗	220 #	390 ✗	1.0k #	2.2k ✗	4.7k #	6.8k ✗	22k ✗	47k ✗	1.0M ✗
100 #	270 ✗	470 ✗	1.5k ✗	2.7k ✗	5.1k ✗	10k #	27k ✗	100k #	10M ✗

(✗), (#) symbols indicate Resistor values included in Assortments below.

Part No.	Cross Ref. No.	Values included	Description (see chart above)	Pricing 1	Pricing 10
108302EX	ASST1830	✗ \#	10 each of 24 values marked by ✗ and 50 each of 6 values marked above by # (540 pcs.)	$12.95	$11.49
108329EX	CAB182R	— —	1/8-watt resistor component cabinet kit – 30 values (540 pcs.) see page 37	24.95	22.49

1/2-Watt Carbon Film Resistor (±5%) Assortments

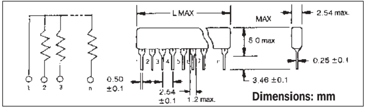
Part No.	Cross Ref. No.	Values Included	Description (see chart above)	Pricing 1	Pricing 10
107879EX	CAB12R	—	1/2-watt resistor component cabinet kit – 30 values (540 pcs.) see page 37	$29.95	$26.95

Single-In-Line "SIP" Resistor Networks

8 and 10-Pin Bussed (125mW/Resistor) ±2%

Features (8BRN/10BRN):

- **8-pin package (7 resistors) = 8BRN**
  10-pin package (9 resistors) = 10BRN
- Rated power per resistor at 70°C: 125mW/ resistor
- Op. temp. range: -55°C to +125°C
- Insulation resistance: 10,000MΩ min. at 100V
- Solderability: per MIL-R-83401
- Low profile 5mm (.200" body height)
- Low profile is compatible with DIPs
- Cermet thick film construction

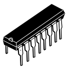


Pricing per each			
1	10	100	1000
$.25	$.19	$.15	$.12
Pricing for P/N 97826EX			
$.24	$.18	$.14	$.11

Part No.	Pins	Ohms
97826EX	8	10k
97851EX	10	330
97869EX	10	470
97877EX	10	1.0k
97893EX	10	2.2k
24660EX	10	4.7k
24643EX	10	10k
98087EX	10	47k
98095EX	10	100k

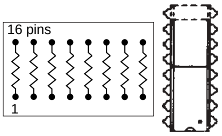
Dual-In-Line "DIP" Resistor Networks

16-Pin Isolated (140mW/Resistor) ±2%



Features (16IRN):

- Maximum operating voltage: 100V
- Insulation resistance: 10,000MΩ min.
- Lead solderability/solvent resistance: meets requirements of MIL-R-83401
- Power rating at 70°C: 2.25 watts
- Compatible with automatic insertion equipment
- Copper leads for excellent heat dissipation
- Tolerance: ±2%



Pricing per each			
1	10	100	1000
$.39	$.35	$.31	$.29

Part No.	Ohms
164005EX	33
108556EX	100
108564EX	220
108572EX	330
108581EX	470
108599EX	1.0k
108610EX	4.7k
108628EX	10k
108644EX	100k

SMD Resistor Assortment (±5%)✦

144 Values, 50 pcs. each; 7,200 Pieces Total

Resistance Value Chart:

1.2	33	430	4.3k	51k	620k
1.6	39	470	4.7k	56k	750k
2.2	43	510	5.6k	62k	820k
2.4	47	560	6.2k	68k	910k
2.7	51	620	6.8k	75k	1.0M
3.0	56	680	7.5k	82k	1.6M
3.3	62	750	8.2k	91k	1.8M
4.3	68	820	9.1k	100k	2.0M
4.7	75	910	10k	110k	2.2M
5.1	85	1.0k	11k	120k	2.4M
5.6	91	1.1k	12k	150k	2.7M
6.2	110	1.2k	13k	160k	3.0M
6.8	120	1.3k	15k	180k	3.3M
7.5	130	1.5k	16k	200k	3.6M
8.2	150	1.6k	18k	220k	3.9M
9.1	160	1.8k	20k	240k	4.3M
10	180	2.0k	22k	270k	4.7M
16	200	2.2k	24k	300k	5.1M
18	220	2.4k	27k	360k	5.6M
20	240	2.7k	30k	390k	6.8M
22	270	3.0k	33k	430k	7.5M
24	300	3.3k	36k	470k	8.2M
27	360	3.6k	39k	510k	9.1M
30	390	3.9k	43k	560k	10M

- Surface mount 0805 resistors, 144 values ranging from 1.2Ω to 10MΩ (50 pieces of each value)
- Thickness: 0.5mm
- Size: 2.0mm x 1.25mm
- Max. overload voltage: 200V
- Op. temp.: -50˚C to 120˚C

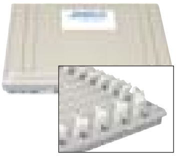
Includes: Case w/ labels

Part No.	Mfr. Cross Ref. No.	1	10	25
172806EX	16-500✦	$79.95	$71.95	$64.79

✦ Surface mount

SMD Plastic Fliptop Case✦

Store 128 Different Surface Mount Components



✦ Surface mount

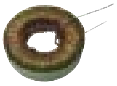
- 8 rows x 16 column grid
- Fliptop openings on each bin
- Padded cover locks bins closed
- Color: gray
- Size: 11.0"L x 8.3"W x1.7" Thick

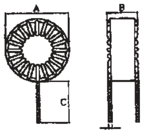
Includes: Labels for each bin

Part No.	Description	1	10
164267EX	SMD fliptop case✦	$49.95	$44.99

High Current Toroid Inductors

- Low radiation
- Low core loss
- High current capacity
- Size:
  A = 22.22mm max.; B = 11.09mm max.;
  C = 15.0±1.0mm; D = 1.2±0.5mm





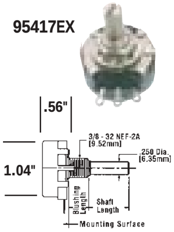
5700 Series

Part No.	L (µH)	IDC max. (A)	L min. @ IDC	1	10
208258EX	10	11.0	5	$3.99	$3.05
208266EX	25	5.5	12	3.99	3.05
208291EX	450	1.5	250	4.32	3.28

2-Watt Linear Taper (±10%)

- 2W @ 70°C ambient
- Temp. range: -55° to +120°C
- Conductive plastic element
- Military No.: RV4N-AYSD__A
- Non-rotational key
- Shaft: dia.: 0.25"; length: 0.875"
- Mounting hole: 0.375"
- Max. panel thickness: 0.25"

95417EX



Includes: Mounting hardware

Part No.	Product No.	Ohms	1	10
183610EX	53C3-500	500	$7.95	$6.95
13936EX	53C3-1K	1k	7.95	6.95
13995EX	53C3-5K	5k	7.95	6.95
13952EX	53C3-10K	10k	7.95	6.95
95417EX	53C3-50K	50k	7.95	6.95
13979EX	53C3-100K	100K	7.95	6.95

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AtHome@Jameco.com

We're always looking for suggestions and feedback about the products we offer.

5-W Linear Taper Wire Wound (±20%)

140513EX

- Temperature range: -10°C to 70°C
- Shaft dia.: 0.23" (6mm) length: 0.67", except P/N 140521EX (0.25")
- Non-rotational key
- Max. panel thickness: 0.1"
- Mounting hole: 0.32"

Includes: Mounting hardware

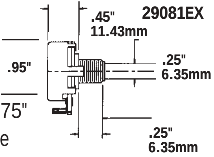
Part No.	Mfr. Cross Ref. No.	Ohms	1	10
140513EX	PW5B100	100	**$2.79**	**$2.35**
140521EX	PW5B500	500	**2.79**	**2.35**

1/2-Watt Linear Taper (±10%)

29081EX

- Temperature range: -55°C to +125°C
- Non-rotational key
- Non-slotted shaft end
- Mounting hole: 0.3125"
- Shaft diameter: 0.25"
- Shaft length: 0.5625"
- Max. panel thickness: 0.1875"

Includes: Mounting hardware



Part No.	Mfr. Cross Ref. No.	Ohms	1	10
29049EX	P1K	1k	**$.99**	**$.79**
29081EX	P10K	10k	**.99**	**.79**
29102EX	P100K	100k	**.99**	**.79**

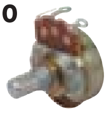
1/4-Watt 24mm Linear Taper with Switch (±20%)

263759EX

- Maximum voltage: 500V
- Switch circuit: SPST
- Switch rating: 125VAC, 1A
- Rotational angle: 300° (±5°)
- Shaft length: 0.335"
- Terminal type: solder lugs

Part No.	Product No.	Ohms	1	10
263759EX	RV24A01-10-15R1-B52	500 ...	**$1.62**	**$1.36**
263767EX	RV24A01-10-15R1-B13	1k	**1.62**	**1.36**
263783EX	RV24A01-10-15R1-B53	5k	**1.62**	**1.36**
263791EX	RV24A01-10-15R1-B14	10k	**1.62**	**1.36**
263812EX	RV24A01-10-15R1-B54	50k	**1.62**	**1.36**
263821EX	RV24A01-10-15R1-B15	100k	**1.62**	**1.36**
263855EX	RV24A01-10-15R1-B16	1M	**1.62**	**1.36**

1/4-Watt 24mm Audio Taper (±20%)


255396EX

- Maximum voltage: 250V
- Terminal type: solder lugs
- Insulation resistance: >100MΩ @500VDC
- Rotational angle: 300° (±5°)
- Shaft length: 0.335"

Part No.	Product No.	Ohms	1	10
255396EX	RV24A-10-15R1-A13	1k	**$1.18**	**$.90**
255417EX	RV24A-10-15R1-A53	5k	**1.18**	**.90**
255425EX	RV24A-10-15R1-A14	10k	**1.18**	**.90**
255433EX	RV24A-10-15R1-A54	50k	**1.18**	**.90**
255441EX	RV24A-10-15R1-A15	100k	**1.18**	**.90**
255468EX	RV24A-10-15R1-A16	1M	**1.18**	**.90**

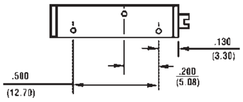
1/4-Watt 24mm Audio Taper with Switch (±20%)

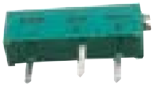
263601EX

- Voltage rating: 250V
- Switch circuit: SPST
- Switch rating: 125VAC, 1A
- Rotational angle: 300° (±5°)
- Shaft length: 0.590"

Part No.	Product No.	Ohms	1	10
263601EX	RV24A01-10-15R1-A13	1k	**$1.62**	**$1.36**
263610EX	RV24A01-10-15R1-A53	5k	**1.62**	**1.36**
263636EX	RV24A01-10-15R1-A14	10k	**1.62**	**1.36**
263644EX	RV24A01-10-15R1-A54	50k	**1.62**	**1.36**
263652EX	RV24A01-10-15R1-A15	100k	**1.62**	**1.36**
263679EX	RV24A01-10-15R1-A16	1M	**1.62**	**1.36**

3/4-Watt, 3/4" Rectangular 15-Turn Linear Cermet (±10%)




41911EX

- Side adjusting
- PC pins: .100" grid (2.54mm)
- Sealed to guard against contaminants
- Temp. range:-55°C to +125°C

Part No.	Mfr. Cross Ref. No.	Ohms	1	10
41937EX	43P500	500	**$1.05**	**$.99**
41890EX	43P5K	5k	**1.05**	**.99**
41822EX	43P10K	10k	**1.05**	**.99**
41911EX	43P50K	50k	**1.05**	**.99**

1/2-Watt, 3/8" Square, Single-Turn Cermet (±10%)

- 1/2 watt linear taper @ 70°C
- PC pins: .100" grid (2.54mm)
- Sealed to guard against contaminants
- Pin Spacing: 0.1"
- Top adjusting
- Temp. range: -55°C to +125°C

SALE
42964EX

Cross Reference Chart

Equivalent to:	
Allen Bradley	E2B
Beckman	72PR
Bourns	3386P
Mepcopal	8038
Murata	3104P
Spectrol	63P
VRN	780-12P
Weston	840P

Part No.	Mfr. Cross Ref. No.	Ohms	1	10
43123EX	63P500	500	**$.85**	**$.79**
42964EX	63P1K	1k	**.85**	**.79**
43043EX	63P2K	2k	**.85**	**.79**
43078EX	63P5K	5k	**.85**	**.79**
43001EX	63P10K	10k	**.85**	**.79**
43051EX	63P20K	20k	**.85**	**.76**
43107EX	63P50K	50k	**.85**	**.76**
43027EX	63P100K	100k	**.85**	**.79**
43060EX	63P300K †	300k	**.85**	**.76**
63212EX	63P500K	500k	**.85**	**.76**
42981EX	63P1MEG	1M	**.85**	**.79**
105216EX	63P2MEG †	2M	**.85**	**.76**

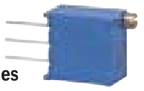
† Pin spacing 0.2"

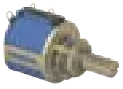
Multi-Turn (±10%)

- Resistance tolerance: ±10%
- Insulation resistance: (500VDC) 1000MΩ min.

Series 3299:

- 25-turn; cermet type
- Absolute minimum resistance: 2Ω or 1% max.
- Load life: 200 cycles, 0.5W


Series 3299

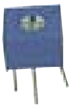

Series 3540

Series 3540:

- 10-turn; wirewound
- Absolute minimum resistance: 1Ω or 0.1% max.
- Load life: 1000 hours, 2W

Part No	Product No.	Ohms	1	10
183564EX	3299W-1-103	10k	**$2.39**	**$2.25**
183548EX	3540S-1-502	5k	**12.79**	**12.35**
183521EX	3540S-1-103	10k	**12.79**	**12.35**

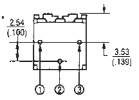
1/2-Watt Trimming Potentiometers (±10%)


191644EX

- Linear taper
- Contact resistance variation: 1% or 3Ω max.
- Insulation resistance: (500VDC) 1,000MΩ min.
- Absolute min. resis.: 1% or 2Ω max.
- Rotational life: 200 cycles
- Terminals: solderable pins
- Top adjustment: 240° nominal
- Wiper positioning: 50% nominal

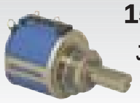
Cross Reference Chart

Equivalent to:	
3362P Series	
Bourns	3362P
Copal	CT-6P
Murata	PVC6
Vishay	76



3362P Series

Part No.	Mfr. Cross Ref. No.	Ohms	1	10
191644EX	3362P-1-200	20	**$.69**	**$.62**
182828EX	3362P-1-502	5k	**.69**	**.62**



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Jameco carries a selection of Multi-Turn and Trimmer Potentiometers.

Aluminum Instrumentation Knobs

(1/8" and 1/4" Shaft Diameters)

Includes: Set screw for secure attachment

290124: Coarse surface for sensitive control; 1/8" shaft diameter

162481EX

290124EX

162499EX

Part No.	Mfr. Cross Ref. No.	Body Color	Pointer Color	Size (H" x Dia.")	1	10
162481EX	K5-1/4S	Chrome	Silver	.50 x .56	**$1.19**	**$1.09**
290124EX	42008-1	Silver	Silver	.50 x .625	**1.99**	**1.79**
162499EX	K5-1/4B	Black	White	.50 x .56	**1.55**	**1.39**
138481EX	KN031	Aluminum	Black	.61 x .65	**1.49**	**1.35**
138501EX	KN032	Aluminum	Black	.87 x .75	**1.95**	**1.71**

138481EX / 138501EX

Black Instrumentation Knobs

(1/4" Shaft Diameters)

Includes: Set screw for secure attachment

264882EX/264891EX/ 264911EX: Numeric dial type

264882EX

264891EX

264911EX

102787EX

Part No.	Product No.	Body Color	Pointer Color	Size (H" x Dia.")	1	10
264882EX	RN-112A	Black/Alum	Numeric	.90 x 1.46	**$.99**	**$.93**
264891EX	RN-113A	Black/Alum	Numeric	.70 x 1.15	**.99**	**.93**
264911EX	RN-114A	Black/Alum	Numeric	.58 x 1.46	**.99**	**.93**
102787EX	JK-903C	Black	White	.54 x 1.25	**.64**	**.41**
104176EX	JK-902C	Black	White	.49 x .75	**.99**	**.85**
202286EX	CP-Z1-M-S	Black/Alum	White	.60 x .80	**.79**	**.69**
136240EX	GKB-214	Black/Alum	White	.52 x .54	**.65**	**.55**
138392EX	41108-1	Black/Alum	White	.56 x .85	**.79**	**.59**

104176EX

202286EX

136240EX

138392EX

Incandescent Lamps

✳ Prepackaged: order in increments of 5

Mfr. Cross Part No.	Volts Ref. No.	Fig.	Description	Current (VDC)	(A)	MSCP	Pricing 1	5
209390EX	14	1	G3 $^{1}/_{2}$ miniature screw	2.47	.30	.50	**$.55**	**$.52**
209437EX	47	2	T3 $^{1}/_{4}$ miniature bayonet	6.3	.15	.50	✳	**.22**
209883EX	1821	3	T3 $^{1}/_{4}$ screw	28.0	.17	3.4	**.99**	**.89**
141073EX	2182	4	T1 $^{3}/_{4}$ wire terminal	14.0	.08	.30	~~$.59~~ **.49**	**.44**
141065EX	2200	4	T1 $^{3}/_{4}$ wire terminal	5.0	.06	.05	**.59**	**.54**
141057EX	6833	5	T $^{3}/_{4}$ wire terminal	5.0	.06	.05	**1.29**	**1.15**
209998EX	7219	6	T1 wire terminal	12.0	.06	.15	✳	**.29**
210008EX	7328	7	T1 $^{3}/_{4}$ bi-pin	6.0	.20	.60	~~$.99~~ **.89**	**.79**
210024EX	7341	8	T1 $^{3}/_{4}$ midget flange	28.0	.065	.65	~~$.89~~ **.79**	**.69**
141006EX	7361	7	T1 $^{3}/_{4}$ bi-pin	5.0	.06	.05	~~$1.29~~ **.99**	**.89**
210032EX	7382	7	T1 $^{3}/_{4}$ bi-pin	14.0	.08	.30	**.49**	**.39**
210075EX	7715	9	T1 bi-pin	5.0	.115	.15	**1.19**	**.99**
210091EX	120MB	10	T2 miniature bayonet	120	.025	1200	**.69**	**.65**

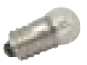
Fig. 1

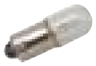
Fig. 2

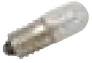
Fig. 3

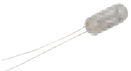
Fig. 4

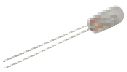
Fig. 5

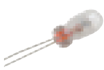
Fig. 6

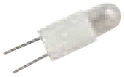
Fig. 7

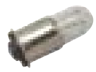
Fig. 8

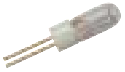
Fig. 9

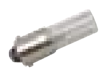
Fig. 10

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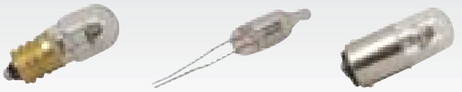

While you're there be sure to check out our selection of Neon Lamps.

Buzzers and Sonic Transducers

SALE

Magnetic Transducers

- Applied voltage: 1/2 duty, square wave

Part Number	Fig.	Operating Volt. (Vp-p/mA)	Voltage Range (Vp-p)	Frequency (Hz)	Sound (dB)	Dimensions	Pricing 1	10
138721EX	1	1.5/10	1 – 2	2048	80	.32"H x .46"Dia.	**$1.49**	**$1.35**
207917EX	2	1.5/30	1 – 2	2048	75	.22"H x .47"Dia.	**1.45**	**1.16**
207925EX	3	1.5/70	1 – 2	2048	80	.50"L x .50"W x .30"H	**.56**	**.51**
207941EX	4	1.5/80	1 – 2	2731	80	.28"H x .38"Dia.	~~$.99~~ **.68**	**.62**
207968EX	5	1.5/80	1 – 2	2731	80	.22"H x .35"Dia.	**.65**	**.59**
207909EX	2	3.6/40	1 – 4	1980	70	.22"H x .47"Dia.	**.99**	**.84**
138739EX	1	5/40	3 – 8	2400	85	.35"H x .46"Dia.	**1.49**	**1.29**
106500EX	1	5/40	3 – 8	2400	85	.40"H x .48"Dia.	**1.49**	**1.29**
207933EX	4	5/100	4 – 8	3100	85	.28"H x .38"Dia.	**.66**	**.60**
207950EX	5	5/100	4 – 8	3100	85	.22"H x .35"Dia.	**.81**	**.74**

Magnetic Buzzers

Part Number	Fig.	Operating Volt. (VDC/mA)	Voltage Range (VDC)	Frequency (Hz)	Sound (dB)	Dimensions	Pricing 1	10
76064EX	6	5/30	4 – 7	2300	85	.35"H x .46"Dia.	**$2.99**	**$2.69**

Piezo Buzzers

206295EX	6	12/6	3 – 20	2900	95	.63"H x .92"Dia.	**$2.49**	**$2.25**
196357EX	6	12/5.8	3 – 16	4000	86	.30"H x .54"Dia.	**2.69**	**2.45**
138712EX	6	12/7	3 – 16	4000	80	.30"H x .54"Dia.	**2.49**	**2.25**
207888EX	7**	12/120	9 – 15	1500 - 3100	105	3.4"L x 2.2"W x 1.3"H	**5.78**	**5.25**
207992EX	8	12/250	6 – 16	3500	105	2.3"L x 1.8"W x 1.6"H	**6.95**	**6.29**
32601EX	9	24/15	1 – 28	2900	95	1.4"H x 1.7"Dia.	**4.95**	**4.45**
123537EX	9*	24/20	4 – 28	2900	80	1.4"H x 1.7"Dia.	**4.19**	**3.79**
76021EX	10	24/20	1.5 – 28	3200	95	1.0"H x 1.1"Dia.	**4.99**	**4.49**

* Dual tone **Siren

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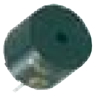


Fig.1

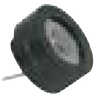


Fig.2

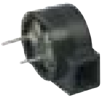


Fig.3

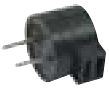


Fig.4

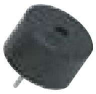


Fig.5

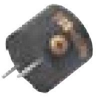


Fig.6

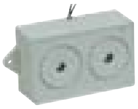


Fig.7

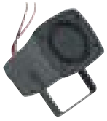


Fig.8

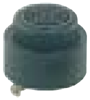


Fig.9

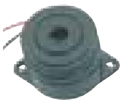
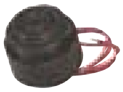


Fig.10

110VAC Piezo Buzzer



- Sound pressure level: 90dB
- Output tone: pulse • 6" lead wires
- Operating range: 60-150VAC
- Current drain: 20mA • Fits 1.125" diameter opening
- Size: 1.3"H x 1.7"Dia. **Includes**: Mounting nut

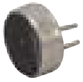
Part No.	Product No.	1	10
184743EX	FM-110A-903AL	**$3.19**	**$2.99**

Omnidirectional Electret Condenser Microphone Cartridges

- For use with tape recorders, intercoms, hearing aids, telephone and answering devices, sonic controlled toys and sensors
- Used for recording, testing, and monitoring
- Modems for computers

116505EX

160979EX



136573EX

Part No.	Type	Sensitivity	Impedance	Frequency (Hz)	Max. Op. Volt. (VDC)	Stand Op. Volt. (VDC)	Current (Max.)	Sensitivity Reduction	S/N Ratio	Terminals	Size (H x Dia.)	Pricing 1	10
116505EX	WM-54PC	-44 ±2dB	>2.2kΩ	20-16,000	10V	2.5V	0.6mA	-3dB @ 2V	>60dB	PC pin leads	.20" x .38"	**$.69**	**$.62**
160979EX	WM-64PKT	-44 ±3dB	>2.2kΩ	20-16,000	10V	2.0V	0.5mA	-3dB @ 1.5V	>58dB	PC pin leads	.10" x .24"	**.72**	**.65**
136573EX	WM-60PC	-54 ±2dB	>2.2kΩ	20-12,000	12V	4.5V	0.5mA	-3dB @ 3V	>40dB	PC pin leads	.30" x .38"	**.53**	**.48**

Square Ferrite Speaker

- Pre-tinned speaker lugs
- Freq. range: 300-14000Hz
- Large magnet
- Anodized metal surfaces
- Paper diaphragm
- Braided copper voice coil leads

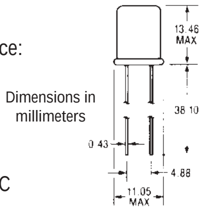
Part Number	Mfr. Cross Ref. No.	Dimensions (Dia." x D")	Input (W) Nom	Max	Impedance (Ω)	Output SPL (dB)	Magnet Size (Dia." x H")	Pricing 1	10
99995EX	FEB204	2.6 x 0.9	3.0	4.0	4	95	1.8 x 0.5	**$2.49**	**$2.25**

side

back

Crystals

- Frequency calibration tolerance: ± 50ppm @ 25°C
- Operating temp.: -10°C to +60°C
- Drive level: 4.0 mW max.
- Frequency stability tolerance: ±50 ppm from -10°C to +60°C
- Shunt capacitance: 7pF max.

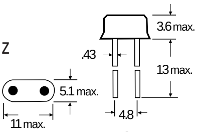


HC49/U (HC18/U) Case

Part No.	Mfr. Cross Ref. No.	Frequency (MHz)	Impedance	Microprocessor	1	10
101274EX	CY2.457	2.4576	32pF	CDP1702/1802C/1804/1804C	**$.99**	**$.89**
14592EX	CY4	4.0	20pF	MCS-40/MC6802,8,9/CDP1802	**.59**	**.54**
120061EX	CY11.05	11.0592	Series	General purpose	**.89**	**.79**
14517EX	CY20	20.0	Series	MCS-80/8080A/8224	**.79**	**.69**

Low Profile Crystals

- Frequency range: 3.5 to 70.0MHz
- Operating temp.: -10°C to +60°C
- Drive level: 0.5mW (fundamental frequency)
- Aging: ±5ppm/year maximum
- Frequency stability tolerance: ±50ppm



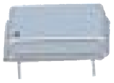
HC49/S Case

HC49/S Case (Low Profile)

Part Number	Mfr. Cross Reference No.	Frequency (MHz)	Imped.	Max. Resist.	Microprocessor	Pricing 1	10
137832EX	CY4LP	4.000	17pF	120Ω	MCS-40/MC6802, 8, 9/CDP1802	**$.99**	**$.89**
137859EX	CY8LP	8.000	Series	60Ω	IM6100A/MC68B09	**.75**	**.67**

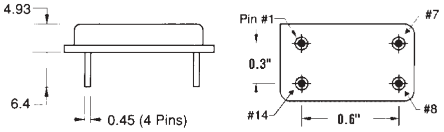
TTL Crystal Oscillators

- OSC series oscillators fit into a 14-pin DIP socket PN 133006EX, below
- Input voltage: +5VDC ±0.5VDC
- Operating temperature: 0°C to 70°C
- Frequency stability ±100ppm



27967EX

Pin #	Function	Pin #	Function
1	N/C	8	Output
7	GND	14	+5VDC



Part Number	Mfr. Cross Reference No.	Frequency (MHz)	Max Input Current	Rise Fall Time	Input Current	Pricing 1	10
27861EX	OSC1	1.0	7mA	15ns	45mA	**$2.75**	**$2.45**
27967EX	OSC4	4.0	7mA	10ns	50mA	**1.99**	**1.79**
27991EX	OSC8	8.0	15mA	15ns	30mA	**1.99**	**1.79**
27887EX	OSC10	10.0	15mA	10ns	20mA	**1.99**	**1.79**
27895EX	OSC12	12.0	15mA	10ns	50mA	**1.99**	**1.79**
27932EX	OSC20	20.0	17mA	10ns	20mA	**1.79**	**1.59**
76857EX	OSC100	100.0	25mA	3ns	90mA	**2.49**	**2.25**

14-Pin Crystal Oscillator Socket

- Can be PCB mounted without the modifications that would be needed with DIP-IC sockets
- Low profile solder tail; machine tooled on 4 pins
- Good for prototyping and PCB mounting

Part No.	Description	1	10
133006EX	Oscillator socket	**$.55**	**$.46**

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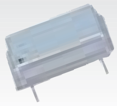
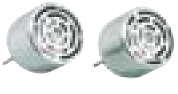


Find a larger selection of Crystals and Oscillators on our website.

Sensors

Ultrasonic Sensor Sets

- Use for motion or distance sensing
- Frequency: 40kHz ±1.0kHz
- Aluminum case



136653EX

136653EX: Transmit/Receive Set

- Capacitance: 2000pF ±30%
- Case size: 0.47"H x 0.62" Dia.
- Transmitter: bandwidth 4.0kHz/112dB, sound pressure level 119dB/40±1.0kHz
- Lead length/spacing: 0.39"
- Receiver: bandwidth 3.5kHz @ -71dB, min. sensitivity 65dB/40±1.0kHz (0dB vs 1V µbar) R=3.9kΩ

139491EX

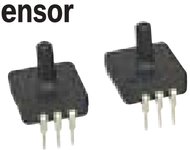
139491EX: Transmit/Receive Set

- Capacitance: 2000pF ±20%
- Lead length/spacing: 0.28"
- Transmitter: bandwidth 5.0kHz/100dB, sound pressure level 112dB/40 ±1.0kHz
- Receiver: bandwidth 5.0kHz @ -75dB, minimum sensitivity 67dB/40 ±1.0kHz (0dB vs 1V µbar) R=3.9kΩ
- Case size: 0.30"H x 0.43"Dia.

Part No.	Mfr. Cross Ref. No.	1	10
136653EX	40TR16F	**$6.95**	**$6.29**
139491EX	40TR12B	**6.95**	**6.29**

Fujikura

-1.1 to 2.5 PSI Pressure Sensor



SALE

- Measurable pressure range: -1.1 to 2.5 PSI
- Maximum load pressure: twice of rated pressure
- Volt-level output
- Operating voltage: 5V @ <10mA
- Maximum excitation voltage: 8V
- Pressure type: gauge pressure
- Pressure media: non-corrosive gas
- On-chip amplification and temp. compensations
- Pre-calibration of offset voltage and span

Part No.	Product No.	1	10
196103EX	XFPN-025-KPGRNW1	**$24.95**	**$21.25**

Latched Hall Effect Sensor

- SP (south pole): on NP (north pole): off
- Supply voltage: 20Vcc
- Supply current: 4mA
- Output current: 20mA
- Max. operating point: ≤ 130
- Max. release point (gauss): ≤ 130

Part No.	Mfr. Cross Ref. No.	1	10
174043EX	HI-300	**$.95**	**$.86**

More at www.Jameco.com

0 to 1.45 PSI Pressure Sensor

- Typical full scale span @ 35mV: 0-10kPa (0-1.45 PSI)
- Maximum pressure (P_{MAX}): 75kPa (10.875 PSI)
- Operating volt. (typical): 3VDC @ 6mA
- Applications: air movement control, level indicators, leak detection, robotics and industrial controls
- 1/8" diameter tubing applicable
- Size: 0.7"Dia. x 0.78"Thick (with nozzle)

Part No.	Product No.	1	10
218827EX	MPX10GS	**$8.99**	**$7.99**

Vibration/Tilt Switch Sensor

Detects motion or vibration when the switch is mounted such that its main axis is near to the horizontal.

- Contact form: SPDT
- Max. contact load: 24VDC/115VAC @ 0.5A
- Typical contact resistance: 1Ω (measured at 5VDC @ 0.01A with switch tilted 45° beyond operating point)
- Tilt: one plane only; ±10 deg. included angle
- Minimum operating temperature: -37°C

Part No.	Mfr. Cross Ref. No.	1	10
235926EX	Series 3004	**$1.49**	**$1.25**

Open-Frame Switching Power Supplies

Other Versions Available: Call 800-831-4242

SALE

More Power Supplies @ www.Jameco.com/PS

Jameco Part No.	Mfr.	Manufacturer Product Number	Output Voltage@Current (min-max)	Output Pwr. (W)	Input (VAC @ Hz)	Ripple & Noise (mV p-p)*	Certification	Pricing 1	Pricing 10
148603EX	Mean Well	PS-25-12	+12V@0-2.1A	25.2	85-264@47-63	100	UL/CUL/TUV/CE	**$18.95**	**$17.95**
190086EX	Artesyn	NFS40-7608	+5V@0-3A; +12V@0-2A; -12V@0-0.35A	43.2	85-264@47-440	50	UL/CSA/VDE/CE	**46.39**	**41.75**
88401EX	Mean Well	PT45B	+5V@0.4-3A; +12V@0.2-2A; -12V@0-0.3A	45.0	90-264@47-440	50	UL/CUL/TUV/CE	**29.95**	**23.09**
148638EX	Mean Well	PS-65-12	+12V@0-5.2A	62.4	90-264@47-440	100	UL/CUL/TUV/CE	**29.95**	**25.29**
194896EX	Mean Well	PD65B	+5V@0.4-3.5A; +24V@0.2-2A	65.5	90-264@47-440	50	UL/CUL/TUV/CE	**34.95**	**26.39**

Special Offers at Great Savings – 90-Day Warranty

Jameco Part No.	Mfr.	Manufacturer Product No.	Output Voltage@Current (min-max)	Output Pwr.(W)	Input (VAC @ Hz)	Size Inches (LxWxH)	Mounting Holes Inches (LxWxDia.)	Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	Certification	Pricing 1	Pricing 10
166967EX	Super Mac	U002512010	+5V@2.5A; +12V@1A	24.5	100-240@50-60	3.7x2.5x1.2	—	50	—	1.0	UL/CSA/TUV	**$14.29**	**$12.15**
163985EX	Samsung	PSPL430201A	+5V@5A; +12V@1.5A	43.0	100-120@50-60	6.1x2.1x1.0	—	—	—	—	UL/CUL	**11.95**	**10.16**
171731EX	Delta	DPS-60MPB	+3.3V@0.8-8A; +5V@1-9A;	65.0	90-270@47-63	5.8x3.3x1.4	—	50	2.0	2.0	UL/CUL/TUV	**6.95**	**5.89**

* Primary Output

For complete specifications and our entire listing of power supplies please visit our website @ www.Jameco.com

Enclosed Switching Power Supplies

Jameco Part No.	Manufacturer	Manufacturer Product Number	Output Voltage@Current (min-max)	Output Pwr. (W)	Input (VAC @ Hz)	Ripple & Noise (mV p-p)*	Certification	Pricing 1	Pricing 10
123246EX	Mean Well	S-25-5	+5V@0-5A	25.0	85-264@47-63	50	UL/TUV/CE	**$39.95**	**$32.10**
123254EX	Mean Well	S-25-12	+12V@0-2.1A	25.2	85-264@47-63	100	UL/TUV/CE	**39.95**	**32.10**
123271EX	Mean Well	S-25-24	+24V@0-1.1A	26.4	85-264@47-63	100	UL/TUV/CE	**39.95**	**32.10**
123297EX	Mean Well	S-40-12	+12V@0-3.5A	42.0	85-264@47-63	100	UL/CUL/TUV/CE	**44.95**	**38.60**
123334EX	Mean Well	S-60-12	+12V@0-5A	60.0	85-264@47-63	120	UL/CUL/TUV/CE	**53.95**	**41.50**
123342EX	Mean Well	S-60-15	+15V@0-4A	60.0	85-264@47-63	150	UL/CUL/TUV/CE	**53.95**	**41.50**
123351EX	Mean Well	S-60-24	+24V@0-2.5A	60.0	85-264@47-63	150	UL/CUL/TUV/CE	**53.95**	**41.50**
123457EX	Mean Well	D-60A	+5V@0.3-4A; +12VDC@0.2-3A	56.0	85-264@47-63	75	UL/CUL/TUV/CE	**54.95**	**44.10**
123465EX	Mean Well	D-60B	+5VDC@.3-3A; +24VDC@0.2-1.8A	58.0	85-264@47-63	75	UL/CUL/TUV/CE	**54.95**	**44.10**
147045EX	Mean Well	Q-60B	+5V@0.5-5.5A; +12V@0.1-2A; -5V@0-0.5A; -12V@0-0.5A	60.0	85-264@47-63	100	UL/CUL	**59.95**	**49.90**
132370EX	Mean Well	Q-120D	5V@2-8A; 24V@0.2-2A; 12V@0.2-2A; -12V@0.2-1A	124.0	88-132/176-264@47-63	80	UL/CUL/TUV/CE	**79.95**	**63.79**
173411EX	Mean Well	SP-150-15†	15V@0-10A	150.0	85-264@47-63	100	UL/CUL/TUV/CE	**91.95**	**82.76**
173403EX	Mean Well	SP-150-24†	24V@0-6.3A	150.0	85-264@47-63	150	UL/CUL/TUV/CE	**91.95**	**82.76**
123431EX	Mean Well	SP-150-15	15V@0-10A	150	88-132/176-264@47-63	180	UL/CUL/TUV/CE	**69.95**	**58.30**
123449EX	Mean Well	S-150-24	24V@0-6.5A	156.0	88-132/176-264@47-63	240	UL/CUL/TUV/CE	**69.95**	**58.30**
167345EX	Mean Well	S-150-48	48V@0-3.2A	153.6	88-132/176-264@47-63	240	UL/CUL/TUV/CE	**69.95**	**58.30**
194773EX	Mean Well	SP-200-12†	+12V@0-16.7A	200.4	85-264@47-63	100	UL/CUL/TUV/CE	**102.95**	**92.66**
137656EX	Mean Well	S-240-24	+24V@0-10A	240.0	88-132/176-264@47-63	180	UL/CUL/TUV/CE	**109.95**	**98.95**
137390EX	Mean Well	SP-300-12†	+12V@0-24A	288.0	88-264@47-63	150	UL/CUL/TUV/CE	**181.95**	**159.70**
137402EX	Mean Well	SP-300-24†	+24V@0-12.5A	300.0	88-264@47-63	150	UL/CUL/TUV/CE	**181.95**	**159.70**
196656EX	Mean Well	S-320-24	+24V@0-12.5A	300.0	88-132/176-264@47-63	150	UL/CUL	**124.95**	**112.80**
147053EX	Mean Well	SP500-24†	+24V@0-20A	480.0	100-240@50-60	240	UL/CUL/TUV/CE	**249.95**	**216.10**
190713EX	Mean Well	PSP-500-12†	+12V@0-41.5A	498.0	90-264@47-63	150	UL/CUL/TUV/CE	**269.95**	**232.09**
190721EX	Mean Well	PSP-500-24†	+24V@0-20.8A	499.2	90-264@47-63	150	UL/CUL/TUV/CE	**269.95**	**232.09**

† PFC (Power factor correction)

Special Offers at Great Savings – 90-Day Warranty

SALE

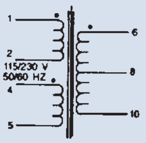
Jameco Part No.	Mfr.	Manufacturer Product No.	Output Voltage@Current (min-max)	Output Pwr.(W)	Input (VAC @ Hz)	Size Inches (LxWxH)	Mounting Holes Inches (LxWxDia.)	Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	Certification	Pricing 1	Pricing 10
205698EX	Volgen	ESK80U-1515	+5V@10A; +15V@0.8A; -15V@0.8A	74	115/220@50-60	8.7x5.0x1.5	—	—	—	—	UL/CSA	**$20.41**	**$18.56**
199515EX	Globtek	RT-3S150-24	24V@6.5A	150	115/230@50-60	7.9x4.3x1.9	6.8x3.8x0.14	100	5.0	5.0	UL/CE	**59.95**	**47.95**

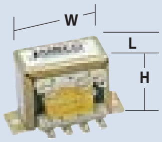
* Primary Output

Quick Connect Power Transformer

- Quick connect transformers are bobbin wound for smaller size and reduced electrostatic shielding requirements
- Terminals: quick connect, solder
- Input voltage: 115/230VAC, 50-60Hz

Part Number	Mfr. Cross Ref. No.	Triad Cross	Input Voltage	Output Voltage	VA Cap	Size of Connect	Dimensions L"	Dimensions W"	Dimensions H"	Weight (lbs.)	Pricing 1	Pricing 10
101864EX	XFR2424Q	FD724	115/230VAC	24VCT @ 2.4A	57.6	0.187"	2.40	2.70	2.25	1.7	**$11.95**	**$10.79**





13.8VDC Precision Regulated Linear Power Supply

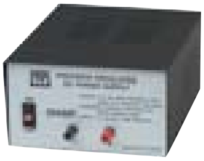
- Output: 13.8VDC @ 4A
- Input voltage: 115VAC @ 60Hz
- Illuminated rocker switch
- Fuse protected
- Heavy duty 5'8" 3-prong power cord
- Short-circuit protection
- Output terminals: see web for mating cigarette plugs and mating banana terminal plugs

Part No.	Model No.	Output Terminals	Size (L" x W" x H")	Wt. (lbs.)	1	10
135845EX	RPS1204	Banana term/cig. plug	6.7 x 5.2 x 3.2	5.5	$29.95	$26.95

276-Watt Precision Regulated Linear Power Supply

- Output current: 20A
- Illuminated rocker switch
- Short circuit protection
- Output terminals: see web for mating cigarette plugs and page 58 for mating banana terminal plugs
- Fuse protected
- Output: 13.8 VDC
- Input voltage: 115VAC @ 60Hz

Includes: heavy duty 5'8" 3-prong power cord



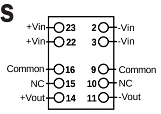
Part No.	Model No.	Output Terminals	Size (L" x W" x H")	Wt. (lbs.)	1	10
138675EX	52-192012	Banana	10.0 x 7.8 x 4.4	15.9	$109.95	$99.95

3 & 15-Watt DC-to-DC Converters

- Short-circuit/over-current protection
- One-year warranty

Mean Well is an ISO-9001 Certified Company

Fig. 1



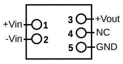


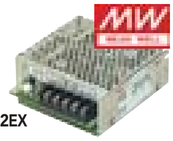
Fig. 2

155918EX

Part Number	Product Number	Fig.	Power (W)	Input Voltage Range (VDC)	Output Voltage (VDC)	Output Current (mA)	Ripple p-p (mV)	Pins	Size L" x W" x H"	Pricing 1	10
155918EX	DCW03A05	1	3	9-18	+5/-5	300	100	8	1.2 x 0.7 x 0.5	$20.95	$18.89
161701EX	DCW03A12	1	3	9-18	+12/-12	125	100	8	1.3 x 0.8 x 0.5	20.95	18.89
155707EX	SKE15A12	2	15	9-18	+12	1,250	60	4	2.0 x 2.0 x 0.4	34.95	31.19

25-Watt DC-to-DC Converters

- Input voltage: 9.2VDC-18VDC
- Built-in EMI filter, low ripple noise
- Size: 3.9"L x 3.9"W x 1.5"H
- Voltage output adjustable
- Input/output connector: screw terminals
- Mating conn.: P/N 103587EX or 103595EX, see web



175812EX

Part No.	Product No.	Output	1	10
175804EX	SD25A12	12V @ 2.1A	$40.95	$30.99
175812EX	SD25A24	24V @ 1.1A	40.95	30.99

Wall Adapters

AC-to-AC Regulated Wall Adapters

- **Input: 120VAC @ 60Hz**

We will change any power plug (see web) on any wall adapter listed (100 pc. minimum).

2-Wire AC Input

Part Number	Manufacturer	Product Number	Output Rating Voltage (VAC)	Output Rating Current (mA)	Output Plug ID x OD Plug Type F = female; M = male	Size (+0%-20%) H" x W" x D"	Case Color	Output Cord Length	Weight (lbs.)	Agency Approvals	Pricing 1	Pricing 10
210729EX	ITE Power Supply	MKA35090300	9	300	2.1mm x 5.5mm F	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CUL	$3.95	$3.55
100061EX	Jameco	AC905F1	9	500	2.1mm x 5.5mm F	2.4 x 2.0 x 1.6	Black	6'	0.6	UL/CUL	4.59	4.13
112336EX	Jameco	AC915F5	9	1500	2.5mm x 5.5mm F	2.5 x 2.2 x 2.0	Black	6'	0.9	UL	9.95	7.99
101258EX	Jameco	41A12-500	12	500	2.1mm x 5.5mm F	2.8 x 2.0 x 1.6	Black	6'	0.6	UL/CSA	4.59	4.15
10081EX	Leader Electronics	AC1210F1	12	1000	2.1mm x 5.5mm F	2.6 x 2.4 x 2.0	Black	6'	0.7	UL/CSA	5.19	4.67
100167EX	Jameco	AC1210F5	12	1000	2.5mm x 5.5mm F	3.2 x 2.4 x 2.0	Black	6'	0.7	UL/CSA	5.19	4.67
171408EX	—	AC1405F1	14	500	2.1mm x 5.5mm F	2.8 x 2.0 x 1.6	Black	6'	0.6	UL/CSA	4.49	4.04
185439EX	Ault	T5182200-A020G	18	1850	2.1mm x 5.5mm right angle F	3.3 x 2.7 x 2.2	Black	6'	1.7	UL/CSA	7.49	6.74
87581EX	Jameco	AC2405F1	24	500	2.1mm x 5.5mm F	2.5 x 2.2 x 1.9	Black	6'	0.9	UL/CSA	5.19	4.67
140599EX	Jameco	AC2410F1	24	1000	2.1mm x 5.5mm F	3.0 x 2.2 x 1.9	Black	6'	1.2	UL/CSA	8.95	8.09
10102EX	Jameco	AC2410M3	24	1000	3.5mm male	3.0 x 2.2 x 1.9	Black	6'	1.2	UL/CSA	7.95	7.19
176356EX	Jameco	WP573024	24	1250	2.1mm x 5.5mm F	3.4 x 2.7 x 2.2	Black	5'8"	1.6	UL/CSA	10.49	9.45

164101EX

171301EX

AC-to-DC Regulated Wall Adapters

We will change any power plug (see web) on any DC wall adapter listed (100 pc. minimum).

Polarity 1 ⊕—◐—⊖ **(center negative)**

Female

Male

Polarity 2 ⊖—◐—⊕ **(center positive)**

2-Wire AC Input – Regulated

Part Number	Manufacturer	Product Number	Output Rating Voltage (VDC)	Output Rating Current (mA)	Output Plug ID x OD Plug Type / Polarity F = female; M = male	Input VAC @ Hz	Size (+0%-20%) H" x W" x D"	Case Color	Output Cord Length	Weight (lbs.)	Agency Approvals	Pricing 1	Pricing 10
164101EX	Jameco	DCR505F12	5	500	2.1mm x 5.5mm F **2**	120@60	2.8 x 2.0 x 1.6	Black	6'	0.6	UL/CSA	$9.95	$8.96
171301EX	Imitation	JOD48U08	5	1000	2.1mm x 5.5mm F **2**	120@60	3.1 x 2.9 x 2.0	Black	6'	1.0	UL/CUL	10.95	9.89
168604EX	ITE Power Supply	RWP480505	5	1000	2.5mm x 5.5mm F **2**	120@60	3.3 x 2.2 x 1.9	Black	6'	1.2	UL/CSA	11.39	10.49
190529EX	NOMA	AD9123	9	250	2.5mm x 5.5mm right angle F **2**	120@60	2.5 x 2.0 x 1.6	Black	12'	0.5	UL/CSA	6.49	5.85
162996EX	Jameco	DCR1205F12	12	500	2.1mm x 5.5mm F **2**	120@60	3.2 x 2.2 x 1.9	Black	6'	0.9	—	9.95	8.96
170245EX	Jameco	DCR1210F12	12	1000	2.1mm x 5.5mm F **2**	120@60	3.2 x 2.3 x 2.0	Black	6'	1.2	—	13.95	12.59

AC-to-DC Unregulated Wall Adapters

2-Wire AC Input – Unregulated

Part Number	Manufacturer	Product Number	Output Rating Voltage (VDC)	Output Rating Current (mA)	Output Plug ID x OD Plug Type / Polarity F = female; M = male	Size (+0%-20%) H" x W" x D"	Case Color	Output Cord Length	Weight (lbs.)	Agency Approvals	Pricing 1	Pricing 10
112070EX	Jameco	DC502F5	5	225	2.5mm x 5.5mm F **2**	1.9 x 2.2 x 2.0	Black	7'	0.3	UL/CSA	**$7.29**	**$6.59**
133891EX	Horizon	DC903F1	9	300	2.1mm x 5.5mm F **2**	2.0 x 1.5 x 1.5	Black	6'	0.4	UL/CSA	**3.95**	**3.55**
140636EX	Jameco	DC904F5	9	400	2.5mm x 5.5mm F **2**	2.6 x 2.0 x 2.0	Black	6'	0.6	UL/CSA	**4.19**	**3.79**
170270EX	Panasonic	PQLV1	9	500	2.1mm x 5.5mm right angle F **1**	2.7 x 1.9 x 1.8	Gray	6'	0.6	UL/CSA	**4.49**	**4.04**
100853EX	Jameco	DC905F12	9	500	2.1mm x 5.5mm F **2**	2.5 x 1.9 x 1.7	Black	6'	0.6	UL/CSA	**4.95**	**4.46**
100175EX	Jameco	DC906F5	9	600	2.5mm x 5.5mm F **2**	2.5 x 1.9 x 1.8	Black	6'	0.6	UL/CSA	**5.49**	**4.75**
100888EX	Everglow	DDU090100	9	1000	2.1mm x 5.5mm F **2**	2.6 x 2.4 x 2.0	Black	6'	1.0	UL/CSA	**7.95**	**7.16**
158043EX	Jameco	DC1202F12R	12	200	2.1mm x 5.5mm right angle F **2**	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CSA	**4.49**	**4.04**
114825EX	Jameco	DC1205ST	12	500	Connector end may vary	2.5 x 2.0 x 1.7	Black	6'	0.6	CUL	**4.75**	**4.35**
102496EX	ITE Power Supply	DC1205F12	12	500	2.1mm x 5.5mm F **2**	2.5 x 1.9 x 1.6	Black	6'	0.6	UL/CSA	**4.49**	**4.49**
131300EX	Jameco	SCP41	12	500	2.1mm x 5.5mm right angle F **2**	2.6 x 1.9 x 1.7	Beige	6'	0.6	UL/CSA	**5.49**	**4.94**
102277EX	Jameco	DC1205F5	12	500	2.5mm x 5.5mm F **2**	2.5 x 2.1 x 1.7	Black	6'	0.6	UL/CSA	**5.19**	**4.67**
100870EX	Jameco	DC1210F1	12	1000	2.1mm x 5.5mm F **2**	3.1 x 2.4 x 2.0	Black	6'	0.9	UL/CSA	**8.19**	**7.37**
105478EX	Superworld	DC1210F5	12	1000	2.5mm x 5.5mm F **2**	3.1 x 2.4 x 2.0	Black	6'	1.0	UL/CSA	**7.49**	**6.74**
196779EX	Jameco	D1212950	12	1200	2.5mm x 5.5mm F **2**	3.0 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	**8.79**	**7.91**
101291EX	KCS Industries	DC1215F5	12	1500	2.5mm x 5.5mm F **2**	3.4 x 2.7 x 2.2	Black	6'	1.5	UL	**10.39**	**9.35**
192786EX	—	MK135100	13.5	1000	2.1mm x 5.5mm F **1**	2.9 x 2.3 x 2.0	Black	6'	1.0	UL	**3.78**	**3.43**
190001EX	Jameco	DC1505F1	15	500	2.1mm x 5.5mm F **2**	2.3 x 2.4 x 1.9	Black	6'	0.8	UL/CSA	**6.49**	**5.84**
155803EX	Jameco	DC1506F11	15	600	2.1mm x 5.5mm F **1**	2.9 x 2.3 x 1.9	Black	6'	1.0	UL/CSA	**8.95**	**8.06**
203502EX	Jameco	48150900	15	900	2.5mm x 5.5mm F **2**	2.6 x 2.2 x 1.9	Black	6'	1.0	UL/CSA	**6.95**	**6.25**
191652EX	Jameco	DC1510F12	15	1000	2.1mm x 5.5mm F **2**	3.3 x 2.2 x 1.9	Black	6'	1.0	UL/CSA	**9.59**	**8.65**
162317EX	Jameco	DC1605F1	16	500	2.1mm x 5.5mm F **2**	2.2 x 2.4 x 1.9	Black	6'	0.8	UL/CSA	**7.95**	**6.95**
102285EX	Jameco	DC2404F1	24	400	2.1mm x 5.5mm F **2**	3.0 x 2.3 x 2.0	Black	6'	0.9	UL/CUL	**7.95**	**7.19**
196322EX	3Com	P48240600A020G	24	600	2.1mm x 5.5mm F **2**	3.3 x 2.3 x 1.9	Black	6'	1.1	UL/CSA	**8.95**	**8.05**
168495EX	Jameco	DC2408F1	24	800	2.1mm x 5.5mm F **2**	2.9 x 1.9 x 1.6	Black	6'	0.4	UL/CUL/TUV	**10.95**	**9.89**
220960EX	Jameco	DFU240100	24	1000	2.1mm x 5.5mm F **1**	3.4 x 2.7 x 2.2	Black	6'	1.6	UL/CUL	**13.89**	**12.95**

Slim Line Switching Wall Adapters

Now you can use all of the outlets in your power strip!

SLIM LINE switching wall adapters are compact in size, lightweight, and the perfect power solution in all those applications where space is critical. Unlike traditional wall adapters, these do not block unused outlets on wall plates, power strips and surge protectors. And their high efficiency satisfies requirements for minimizing power losses.

- Output connector: 2.1mm x 5.5mm F2 (center positive)
- Input voltage: 100 – 240VAC@47-63Hz • Agency approvals: UL/CUL/TUV/CE
- 2-wire AC input • Output cord length: 6' • Color: black

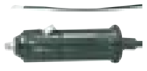
Part No.	Product No.	Output Rating Volts (VDC)	Output Rating Current (mA)	Dimensions (H"xW"xD")	Weight (lbs.)	Pricing 1	Pricing 10
252700EX	S08AB050050	5.0	500	2.5x1.1x1.7	0.2	**$10.49**	**$9.52**
252718EX	S08AB050100	5.0	1000	2.5x1.1x1.7	0.2	**10.95**	**9.94**
252726EX	S08AB050150	5.0	1500	2.5x1.1x1.7	0.2	**11.49**	**10.43**
252751EX	S08AD090050	9.0	500	2.5x1.1x1.7	0.2	**10.95**	**9.94**
252806EX	S08AE120050	12.0	500	2.5x1.1x1.7	0.2	**10.95**	**9.94**
252822EX	S15AE120100	12.0	1000	2.9x1.3x2.2	0.3	**11.95**	**10.85**
252831EX	S15AE120140	12.0	1250	2.9x1.3x2.2	0.3	**12.95**	**11.76**
254756EX	S15AF150080	15.0	800	2.9x1.3x2.2	0.2	**11.95**	**10.85**
252857EX	S08AH240025	24.0	250	2.5x1.1x1.7	0.2	**10.95**	**9.94**

Automobile Power Plug & Cord Assembly

- Screw assembly with strain relief
- Plugs directly into cigarette lighter
- Accepts .25" x 1.25" fuse

124759EX: 3' cord pigtail end

115001EX



124759EX

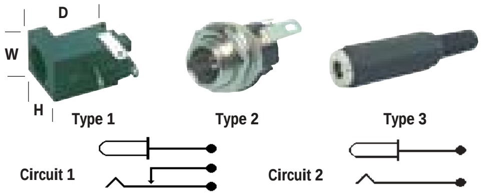
Part No.	Description	1	10
115001EX	W/ 5A/250VAC fuse	**$1.95**	**$1.65**
124759EX	W/ 3A/250VAC fuse & 3' cord	**1.89**	**1.72**

Male Power Jacks

- Dimensions do not include barrel

Terminals	Code
Solder eyelet	A

Mounting	Code
PCB	B
Panel & PCB	C
Cable	D



Part Number	Mfr. Cross Ref. No.	Dimensions H x W x D (mm)	Type/ Mount	Circuit/ Terminal	Mating Plug (below)	Pricing 1	Pricing 10
2.1 mm Male Jacks							
101178EX	PP014	10.9 x 9.0 x 14.5	1/B	1/A	2.1 mm fem.	**$.49**	**$.44**
151554EX	DPJ-026	15.1 x 8.0 Dia.	2/C	1/A	2.1 mm fem.	**1.49**	**1.25**
159610EX	PJ1014A	35.8 x 12.6 Dia.	3/D	2/A	2.1 mm fem.	**1.49**	**1.25**
2.5 mm Male Jacks							
101186EX	PP014A	11.0 x 9.0 x 14.5	1/B	1/A	2.5 mm fem.	**$.59**	**$.53**
151562EX	DPJ-026A	15.1 x 8.0 Dia.	2/C	1/A	2.5 mm fem.	**1.49**	**1.24**
159505EX	PJ1015A	35.8 x 12.6 Dia.	3/D	2/A	2.5 mm fem.	**1.39**	**1.25**

Female Power Plugs

Strain Relief

- Solder eyelets 1mm diameter
- Threaded screw-on housing (strain relief)
- Use with AC/DC wall adapters • Shield crimp tabs
- Use 24 AWG 2 conductor wire, P/N 100280EX, to make custom length power cables, pg 43

Part Number	Mfr. Cross Ref. No.	Description Plug ID x OD (mm)	Dimensions (mm) S (shaft) x L x ID (strain relief)	1	10
28759EX	PP049	2.1 x 5.5 (P205)	8.5 x 41.4 x 4.6 (black)	**$.59**	**$.49**
28767EX	PP109	2.5 x 5.5 (P206)	10.1 x 45.4 x 4.3 (black)	**.59**	**.49**

AC-to-DC Regulated Switching Table-Top Power Supplies

- Regulated and unregulated outputs (see "Output Plug")
- Input voltage: **Regulated:** 100-240VAC @ 50-60Hz
  Unregulated: 120VAC @ 50-60Hz

Polarity 1 ⊕—⊙—⊖ **(center negative)**

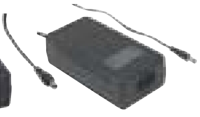
Female

Polarity 2 ⊖—⊙—⊕ **(center positive)**

DIN M

206455EX

155213EX


172064EX

Power	Part Number	Mfr. ▲	Mfr. Cross Ref. No. ▲	Output Pwr (W)	Output Volts (VDC)/ Current (A)	Input VAC@Hz	Output Plug/Connector ID x OD/Plug Type/Polarity F = female; M = male	Pwr. Ind.	Color	Size (L" x W" x H")	Cords* (DC/AC)	Weight (lbs.)	Agency Approvals	Pricing 1	Pricing 10
2-Wire AC Input – Regulated Switching															
18-25W	**195805EX**	Horizon	DCR920F12	18	+9/2.0	100-240@50-60	2.1mm x 5.5mm F **2**	Yes	Black	4.2 x 2.6 x 1.4	6'/6'	0.9	UL/CUL/TUV/CE	**$26.95**	**$24.29**
	195768EX	Horizon	DCR920F52	18	+9/2.0	100-240@50-60	2.5mm x 5.5mm F **2**	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.9	UL/CUL/TUV/CE	**22.95**	**20.69**
	205911EX	Delta	ADP-25HB†	25	+30/0.83	100-125@50-60	2.1mm x 5.5mm F **2**	No	Black	3.5 x 2.4 x 1.2	6'/7'	1.1	UL/CUL	**17.49**	**15.75**
3-Wire AC Input – Regulated Switching															
10-60 Watt	**196218EX**	GlobeTek	GT210891005T3	10	+5/2.0	120-240@50-60	2.1mm x 5.5mm F **2**	No	Black	3.4 x 1.9 x 1.3	6'/*	0.4	UL/CUL/TUV/CE	**$19.95**	**$17.95**
	206236EX	Netgear	A15D3-05MP	15	+5/3.0	100-240@50-60	2.5mm x 5.5mm F **2**	No	Black	3.8 x 2.1 x 1.4	5'/*	0.4	UL/CSA/TUV	**24.95**	**22.49**
	228996EX	Phihong	PSA31U-050	20	+5/4.0	90-264@47-63	2.1mm x 5.5mm F **2**	No	Black	4.5 x 2.4 x 1.4	6'/*	0.5	UL/CUL/TUV/CE	**26.95**	**24.25**
	216531EX	Mean Well	KWM12F-P2MU	18	+12/1.5	100-240@47-63	2.5mm x 5.5mm F **2**	No	Black	4.0 x 1.9 x 1.5	6'/6'	0.4	UL/CUL/TUV/CE	**26.95**	**24.25**
	155213EX	Mean Well	P40A-3P2JU	40	+12/3.3	100-240@50-60	2.1mm x 5.5mm F **2**	Yes	Black	5.5 x 2.3 x 1.5	6'/6'	0.7	UL/CUL/TUV	**35.95**	**32.36**
	155230EX	Mean Well	SPU50-3	60	+12/5.0	100-240@47-63	2.1mm x 5.5mm F **2**	Yes	Black	5.6 x 2.9 x 1.5	6'/6'	1.3	UL/CSA/TUV	**49.95**	**44.95**
	206455EX	Ault	SC100	25	+16/1.56	100-240@50-60	2.5mm x 5.5mm F **2**	No	Black	4.2 x 2.6 x 1.5	6'/*	1.2	UL/CUL/TUV/CE	**17.95**	**14.95**
	181884EX	Mean Well	P40A6P2J	40	+24/1.66	100-240@50-60	2.1mm x 5.5mm F **2**	Yes	Black	4.1 x 2.6 x 1.4	6'/6'	0.7	UL/TUV/CE	**35.95**	**32.36**
	161605EX	Mean Well	SPU50-6	60	+24/2.5	100-240@47-63	2.1mm x 5.5mm F **2**	Yes	Black	5.6 x 2.9 x 1.6	1'9"/6'	1.3	UL/CSA/TUV	**44.95**	**39.95**
	172064EX	Mean Well	SPU50-9	60	+48/1.25	100-240@47-63	2.1mm x 5.5mm F **2**	Yes	Black	5.6 x 2.9 x 1.7	6'/6'	1.3	UL/CSA/TUV	**44.95**	**40.49**
	203043EX	Ault	SC200	32	+5/4, +12/1	100-240@50-60	5-pin DIN M	No	Black	5.0 x 3.0 x 1.6	6'/*	1.3	UL/CSA/CE	**19.95**	**17.95**
	190959EX	Mean Well	P25A13D-R1B	26	+5/2.5, +12/0.8 -12/0.3	100-240@47-63	5-pin DIN M	Yes	Black	4.1 x 2.6 x 1.4	6'/6'	1.1	CUL/TUV/CE	**32.95**	**29.69**

* Use P/N 38050EX for AC cord ▲ Manufacturer and Manufacturer Cross Reference Number may vary except for Mean Well, Phihong, GlobTek and Jameco † Wall-mount

More Power Supplies @ www.Jameco.com

AC-to-DC Regulated Linear Table-Top Power Supplies

Polarity 1 ⊕—⊙—⊖ **(center negative)**

Female

Polarity 2 ⊖—⊙—⊕ **(center positive)**

DIN M

Stripped

Power	Part Number	Mfr. ▲	Mfr. Cross Ref. No. ▲	Output Power (W)	Output Volts (VDC)/ Current (A)	Input VAC@Hz	Output Plug/Connector ID x OD/Plug Type/Polarity F = female; M = male	Pwr. Ind.	Color	Size (L" x W" x H")	Cords* (DC/AC)	Weight (lbs.)	Agency Approvals	Pricing 1	Pricing 10
2-Wire AC Input – Regulated Linear															
5-24 Watts	**116089EX**	Atari	C070042	5	+5/1	115@60	7-pin DIN M	No	Black	3.4 x 2.7 x 2.3	6'/6'	1.6	UL	**$7.95**	**$7.16**
	103173EX	Jameco	JE9100	9	+5/0.6, ±12/0.25	120@50-60	5-pin DIN M	No	Black	4.8 x 3.1 x 2.5	6'/6'	2.3	UL/CSA	**20.95**	**18.89**
	173665EX	Skynet	DND-3005	15	+30/0.5	120-127@60	2.5mm x 5.5mm F **2**	No	Black	3.0 x 2.5 x 2.2	5'9"/3'2"	1.4	UL/CUL	**13.29**	**11.99**
	174852EX	Jameco	DCR2410F52	24	+24/1	120@60	2.5mm x 5.5mm F **2**	No	Black	4.4 x 3.0 x 2.5	6'/6'	2.7	—	**14.95**	**12.95**
3-Wire AC Input – Regulated Linear															
5-12 W	**154624EX**	Motorola	5712-305-4C3E†	5.6	+5/0.5, ±12/0.13	120@60	8-pin mini DIN M	No	Black	2.9 x 2.6 x 1.9	6'/*	1.2	UL/CSA	**$12.95**	**$10.39**

† Wall-Mount * Use P/N 38050EX , pg 26 for AC cord ▲ Manufacturer and Manufacturer Cross Reference Number may vary except for Mean Well, Phihong, GlobTek and Jameco

AC-to-DC Unregulated Table-Top Power Supplies

Power	Part Number	Mfr. ▲	Mfr. Cross Ref. No. ▲	Output Power (W)	Output Volts (VDC)/ Current (A)	Input VAC@Hz	Output Plug/Connector ID x OD/Plug Type/Polarity F = female; M = male	Pwr. Ind.	Color	Size (L" x W" x H")	Length Cords (DC/AC)	Weight (lbs.)	Agency Approvals	Pricing 1	Pricing 10
2-Wire AC Input – Unregulated															
12-29 Watts	**136565EX**	Jameco	DDC1210P	12	+12/1.0	120@60	Stripped & Tinned	No	Black	3.2 x 2.2 x 1.9	6'/6'	1.2	—	**$13.95**	**$12.59**
	140880EX	Jameco	DC1215ST	18	+12/1.5	120@60	Stripped & Tinned	No	Black	3.1 x 2.1 x 1.9	6'/6'	1.5	UL	**12.95**	**11.66**
	143714EX	—	DC1220F1	24	+12/2.0	120@60	2.1mm x 5.5mm F **2**	No	Black	3.8 x 2.8 x 2.3	6'/6'	2.2	—	**14.95**	**13.49**
	139096EX	Jameco	DC2412F1	29	+24/1.2	120@60	2.1mm x 5.5mm F **2**	No	Black	4.4 x 3.1 x 2.6	6'/6'	2.5	—	**14.95**	**13.49**
3-Wire AC Input – Unregulated															
	157956EX	Everglow	EFU120150	18	+12/1.5	120@60	2.5mm x 5.5mm F **2**	No	Black	3.4 x 2.7 x 2.2	6'/6'	2.0	UL	**$10.95**	**$9.86**

▲ Manufacturer and Manufacturer Cross Reference Number may vary except for Mean Well, Phihong, GlobTek and Jameco

COLOR CODE LEGEND...
NEW SALE REFURBISHED CLOSEOUT

120VAC to 120VAC Isolated Transformer

300VA

- Input voltage: 120VAC @ 60Hz
- Input connector: 5.5' cord with 2-prong plug
- Output voltage: 120VAC @ 2.5A (isolated)
- Size: 4.2"H x 3.2"W x 4.6"D
- Weight: 7.0 lbs.

Part No.	Mfr. Cross Ref. No.	1	10
181315EX	ITR300	**$44.95**	**$33.75**

More Variable Transformers @ www.Jameco.com

AEEC 110VAC Variable AC Transformers

- Input voltage: 110VAC @ 60 Hz
- Power: 500 and 2000VA
- Output voltage: 0 to 130VAC
- Output analog voltmeter
- Input conn.: 3-prong plug w/ 5' cord
- Output conn.: 3-prong outlet type
- Lighted on/off power switch

169640EX: • 5A @ 250V fuse
- Size: 8.3"L x 6.5"W x 7.0"H
- Weight: 15.6 lbs.

169658EX: • 20A @ 250V fuse
- Size: 9.8"L x 8.0"W x 7.0"H
- Weight: 26.5 lbs.

169640EX

169658EX

Part No.	Description	1	10
169640EX	500VA transformer	**$84.95**	**$76.49**
169658EX	2000VA transformer	**124.95**	**112.49**

110/220VAC Variable AC Transformers

- Input: 110VAC or 220VAC
- Power: 500-2000VA
- Output: 0-240VAC
- Banana/screw input terminals
- Universal US/European output plugs
- Lighted on/off power switch

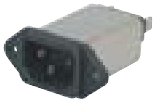
121275EX

Part No.	Fuse	Size (L" x W" x H")	Wt. (lbs.)
121275EX	3A/250V (P/N 69438EX)	5.3 x 7.3 x 7.0	10.4
129007EX	5A/250V (P/N 10401EX)	9.4 x 6.5 x 7.7	14.8
152581EX	10A/250V (P/N 69462EX)	9.0 x 7.0 x 7.7	19.8

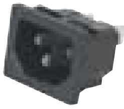
Part No.	Description	1	10
121275EX	500VA transformer..................	**$79.95**	**$69.95**
129007EX	1000VA transformer	**164.95**	**148.49**
152581EX	2000VA transformer................	**174.95**	**158.45**

Power Entry Filters

- Frequency: 50/60Hz



40601EX



147109EX

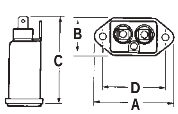


Fig. 1 (Fast-on Terminals)

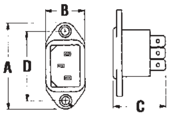


Fig. 2 (Male)

Part Number	Mfr. Cross Ref. No.	Corcom Cross	Description	Fig.	(Amps)	Current (VAC)	Voltage Terminals	Agency Approvals	Terminal Size	Dimension (inches) A	B	C	D	Pricing 1	10
150615EX	03AC1	3EF1	Power entry filter, straight (flanged)	1	3	250	solder	UL/CSA/VDE	.16"	1.89	0.88	2.58	1.58	**$5.95**	**$4.79**
40601EX	03AE1*	3EF1F	Power entry filter, straight (flanged)	1	3	250	fast-on	UL/CSA/VDE	.25"	1.97	0.90	2.16	1.58	**5.95**	**4.79**
147109EX	42R02		AC power inlet (male) snap-in	2	15	250	fast-on	UL/CSA/VDE	.25"	1.22	0.94	1.13	N/A	**.26**	**.23**

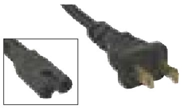
* Manufacturer may vary

Computer and Power Cords

SALE

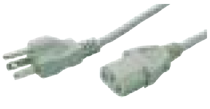
- Molded connectors
- Excellent resistance to jacket abrasion
- Temperature: -20°C to +60°C
- Voltage rating: 300 volts

AWG	Volts	Amps	VA
18	125	10	1250
16	125	12	1500
14	125	15	1875

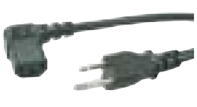


Configuration 8 Laptop Power Cord (Fig. 1)

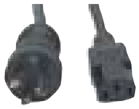
Power Cord w/ pigtail (Fig. 2)



RFI Power Cord (Fig. 3)



Gray Right Angle Computer Power Cord (Fig.4)



Hospital Grade Cord (Fig. 5)

Part No.	Mfr. Cross Reference No.	Description	Wt. (lbs.)	Approvals	Fig.	Length	AWG	Cord Type*	1	10
189587EX	VW-1	2-conductor "8" style power cord for laptops and power supplies	.30	UL/CSA	1	16'	18/2	SPT-2	**$2.95**	**$2.21**
37997EX	17236	3-conductor power cord with pigtail	.30	UL/CSA	2	6'	18/3	SVT	**2.79**	**2.32**
196285EX	LL40378	3-conductor power cord with pigtail	.80	UL/CSA	2	10'	16/3	SJT	**3.49**	**3.15**
38041EX	17249	3-conductor power supply cord	.37	UL/CSA	3	6'	18/3	SVT	**3.49**	**3.15**
38050EX	17250	3-conductor power supply cord	.36	UL/CSA	3	6'	18/3	SVT	**3.65**	**3.29**
125541EX	17504	3-conductor power supply cord	.71	UL/CSA	3	6' 7"	14/3	SJT	**4.95**	**4.25**
117356EX	8120-6177	3-conductor right angle power supply cord	.41	UL/CSA	4	6'	18/3	SVT	**3.95**	**3.19**
115078EX	17006	3-conductor power cord w/ hospital grade male (green dot)	.84	UL/CSA	5	10'	16/3	SJT	**8.95**	**8.05**

* Thermoplastic Cord Jacket Type: Light duty; SPT-2 (Flat): Junior duty; SVT (Round): Light service; SJT (Round): Junior service

International Step-Up/Step-Down Transformers

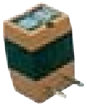


Fig. 1

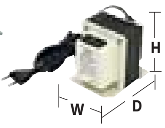


Fig. 2

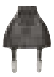


Fig. A

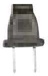
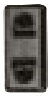


Fig. B



Output Plug

- Wide selection to meet your power requirements

Part Number	Mfr. Cross Ref. No.*	Fig.	Primary Voltage	Secondary Voltage	Power (VA)	Dimensions H"	W"	D"	Weight (lbs.)	Pricing 1	10
99573EX	AC110V50	1/A	220VAC	110VAC	50	2.50	1.63	1.33	0.7	**$9.95**	**$8.99**
85016EX	AC110V300	2/A	220VAC	110VAC	300	3.50	3.05	3.95	4.8	**27.95**	**24.95**
111851EX	AC110V500	2/A	220VAC	110VAC	500	3.99	3.60	4.84	8.5	**34.95**	**31.49**
142906EX	AC110V1500	2/A	220VAC	110VAC	1500	5.25	4.50	5.75	15.2	**79.95**	**71.95**
85008EX	AC220V300	2/A	110VAC	220VAC	300	3.50	3.05	3.95	4.8	**27.95**	**24.95**
222092EX	G1SD-1000	2/A	220VAC	110VAC	1000	5.38	4.38	8.13	31.0	**149.95**	**132.55**

* Manufacturer may vary

44 More Power Cords @ www.Jameco.com

Look for Jameco's complete selection of International Power Cords.

134586EX

Call for additional OEM PRICING – we carry major manufacturers.

- Low profile
- Ball and sleeve bearings
- Low acoustical noise rating
- PBT black thermo plastic frame and impeller
- Agency approved
- Low power consumption
- Power input by lead wires or terminals

102955EX

◆**Size Conversion: Inches to mm**

Inches	0.25	0.40	0.47	0.60	0.80	0.90	1.00	1.18	1.26	1.40	1.50	1.60	1.80	2.00	2.36	2.48	3.15	3.63	3.72	3.83	4.68	5.90	6.75
mm	6	10	12	15	20	23	25	30	32	35	38	40	45	50	60	78	80	92	95	97	120	150	170

Part		Product	Voltage	Size◆	Air Flow		Current	Power	Agency	Noise	Connection	Pricing	
Number	Manufacturer	Number	(VDC)	(W" x H" x D")	(CFM)	Bearing	(mA)	(Watts)	Approvals	(dBA)	(Leads)	1	10
163475EX	Nidec	C34427-55APP	5	1.00 x 1.00 x 0.40	0.5	Ball	90	0.45	——	22	2"	$4.95	$4.46
196373EX	Sunon	KD0504PFB2-8	5	1.60 x 1.60 x 0.40	5.5	Ball	90	0.5	UL/CUL	23	12"	8.95	8.09
102921EX	Sunon	KD0504PFS2-8	5	1.60 x 1.60 x 0.40	6.3	Sleeve	120	0.6	UL/CUL	24.3	12"	7.95	6.95
207061EX	Adda	AD0505MB-G90	5	2.00 x 2.00 x 0.40	10.5	Ball	120	0.7	UL/CSA/CE	24	11"	7.95	6.55
189691EX	Sunon	KD1204PFS2	12	1.60 x 1.60 x 0.40	6.3	Sleeve	70	0.9	UL/CSA/TUV	24	12"	7.95	7.19
161699EX	Sunon	KD1204PFB2-8	12	1.60 x 1.60 x 0.40	6.3	Ball	70	0.6	UL/CSA/TUV	30	12"	7.95	6.95
212716EX	Sunon	KDE1204PFB2-H	12	1.60 x 1.60 x 0.40	6.5	Ball	90	1.1	UL/CUL/TUV/CE/VDE	27	12"	6.65	4.95
213428EX	Adda[1]	ADO412HB-G76	12	1.60 x 1.60 x 0.40	6.7	Ball	100	1.2	CE	30.2	12"/3 leads	7.59	7.19
75344EX	Delta	DFB0412M	12	1.60 x 1.60 x 0.80	7.3	Ball	80	0.8	UL/CSA/VDE/CE	28	4.5"	7.69	6.92
206164EX	Sunon	KDE1204PKBX-8	12	1.60 x 1.60 x 0.80	10	Ball	90	1.1	UL/TUV/CE	29.4	12"	8.95	7.95
212644EX	Sunon	KDE1205PFB3-HG	12	2.00 x 2.00 x 0.40	8.5	Ball	60	0.7	UL/CUL/TUV/CE/VDE	26	12"	6.49	5.84
212652EX	Sunon	KDE1205PFB2-HG	12	2.00 x 2.00 x 0.40	10.6	Ball	80	1.0	UL/CUL/TUV/CE/VDE	31.5	12"	6.65	4.95
212661EX	Sunon	KDE1205PFB1-HG	12	2.00 x 2.00 x 0.40	12.5	Ball	110	1.4	UL/CUL/TUV/CE/VDE	36	12"	6.65	4.95
175046EX	Globe Motors	D24-B08A-04W3-000	12	2.36 x 2.36 x 0.80	10.6	Ball	90	0.8	UL/CSA/TUV/CE	22	13"	6.95	6.25
144160EX	Adda	AD0612LB-C70GL	12	2.36 x 2.36 x 0.80	12.6	Ball	80	1.0	UL/CSA/TUV	22.7	6"	8.49	7.69
150421EX	Jamicon	JF0625B1H	12	2.36 x 2.36 x 1.00	20.5	Ball	230	2.7	UL/CSA/TUV	30.5	10"	6.95	6.29
134586EX	Delta[2]	BFB0712H	12	2.98 x 2.98 x 1.18	11.3	Ball	360	2.6	UL/CSA/TUV/VDE	38	4"	13.95	12.59
16993EX	Various[3] *	FAN7315SL	12	3.15 x 3.15 x 1.00	25-40*	Sleeve	120-200*	1-2*	UL/CSA*	25*	4-12"*	6.95	6.29
75361EX	Various*	FAN6315BL	12	3.15 x 3.15 x 1.00	25-40*	Ball	120-200*	1-2*	UL/CSA*	25*	4-12"*	5.95	5.39
154288EX	Sunon	KDE1208PTS3-6	12	3.15 x 3.15 x 1.00	29.4	Sleeve	120	1.4	UL/CSA/TUV/CE	24.5	5.5"	4.55	4.09
185834EX	Panaflo	FBM08A12H	12	3.15 x 3.15 x 1.00	39.6	Sleeve	220	2.1	——	32	11"	6.95	6.29
206181EX	Sunon	KDE1208PTS1-6	12	3.15 x 3.15 x 1.00	42	Sleeve	220	2.6	UL/CSA/TUV/CE	34	9"	5.95	5.35
185826EX	NMB[4]	3110KL-04W-B69	12	3.15 x 3.15 x 1.00	42	Ball	340	3.1	UL/CSA/VDE/CE	35	13"/3 leads	6.95	6.29
102955EX	Sunon	KD1208PTB1-6	12	3.15 x 3.15 x 1.00	42.5	Ball	220	2.6	UL/CSA/TUV/CE	33.5	12"	6.49	5.85
172460EX	Nidec[4]	TA300DCM33406-68	12	3.15 x 3.15 x 1.00	43	Ball	290	3.5	UL/CSA	41	11"/3 leads	9.95	8.99
190983EX	Sunon	KD1209PTB1-6A	12	3.63 x 3.63 x 1.00	51	Ball	220	2.6	UL/CSA/TUV	34	12"	7.25	6.55
162739EX	NMB (Smart Fan)†	3610KL-04W-B56	12	3.63 x 3.63 x 1.00	55	Ball	430	3.8	UL/CSA/VDE/CE	37	10"/3 leads	7.19	6.47
174140EX	Common Wealth	FP108MS3	12	4.68 x 4.68 x 1.00	54	Sleeve	140	1.7	UL/CSA/TUV/CE	25	12"	6.95	6.29
102875EX	Delta	WFB1212H	12	4.68 x 4.68 x 1.00	86.5	Ball	360	4.3	UL/CSA/TUV	37.6	12"	10.95	9.89
94625EX	Sunon	KD1212PMB1-6A	12	4.68 x 4.68 x 1.50	108	Ball	570	6.8	UL/CSA/TUV/CE	42	12"	11.95	10.79
189851EX	Delta	WFB1212HE	12	4.68 x 4.68 x 1.50	108	Ball	490	5.9	UL/CSA/VDE/CE	41.3	12"	11.95	10.79
189886EX	NMB	3610KL-05W-B30	24	3.63 x 3.63 x 1.00	40.6	Ball	87	2.1	UL/CSA/VDE	34	12"	7.95	6.39
153411EX	Sunon	KD2412PMB2-6A	24	4.68 x 4.68 x 1.50	98	Ball	230	5.5	UL/CSA/TUV	36.5	12"	11.95	10.79

[1] ATX PC type [2] Blower type fan [3] Replacement for the PC/XT computer power supply fan [4] Speed sensor † **162739EX:** Temperature control 50°C, 3 leads * Manufacturers & specifications may vary

AC Tube Axial Fans

- Rating 115 & 220VAC @ 50/60Hz
- Ball and sleeve bearings
- Low acoustical noise rating
- Air flow from 11 to 211 CFM
- Agency approved fans

Part		Product	Voltage	Size◆	Air Flow		Current	Power	Agency	Noise	Connection	Pricing	
Number	Manufacturer	Number	(VAC)	(W" x H" x D")	(CFM)	Bearing	(mA)	(Watts)	Approvals	(dBA)	(Leads)	1	10
162704EX	Toyo	USTF60301153W	115	2.36 x 2.36 x 1.18	11	Ball	38	4	UL/CSA/CE	29	12" leads	$15.49	$13.95
124062EX	Sunon	SP101AT1122HBT	115	4.68 x 4.68 x 1.00	78	Ball	180	18	CSA/TUV/CE	46	terminals	13.49	10.95
118965EX	Fulltech	UF12A12BTL1	115	4.68 x 4.68 x 1.50	64	Ball	80	15	UL/CSA/TUV/CE	37	terminals	14.95	13.49
106585EX	Common Wealth	FP108-1-S1/T	115	4.68 x 4.68 x 1.50	105	Sleeve	180	12	UL/CSA/CE	47	terminals	15.95	14.39
16934EX	Common Wealth	FP108-1-S1-B	115	4.68 x 4.68 x 1.50	105	Ball	200	17	UL/CSA/TUV/CE	47	terminals	16.95	15.29
102883EX	Sunon	SP100A-1123XBT	115	4.68 x 4.68 x 1.50	117	Ball	240	20	UL/CSA/TUV/CE	50	terminals	14.95	13.95
108724EX	Fulltech	UF15AC12BTH	115	6.75 x 5.90 x 1.50	211	Ball	230	28	UL/CSA/TUV/CE	58	terminals	27.95	27.10
102891EX	Sunon	DP200A-2123XBT	220	4.68 x 4.68 x 1.50	117	Ball	120	21	UL/CSA/TUV/CE	50	terminals	15.95	14.39

Straight and Right-Angle 24" Fan Cords

104192EX

- Cord type: SPT-1 (2) conductor black
- Volt. rating: 300V
- Temp.range: 60°C
- Fits all terminal fans
- Length 24"

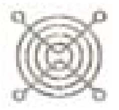
Part No.	Description	1	10
28564EX	Straight socket cord	$.89	$.80
104192EX	90° angle socket cord	.99	.89

Fan Guards and Filters

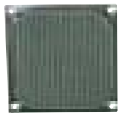
Compatible with DC and AC Fans – above

- Guards & filters fit fans by matching the size dimension. Example: P/N 16993EX fan (3.15") matches P/N 31923EX metal guard (3.15").

Part No.	Description◆	1	10
120037EX	2.36" metal (chrome) guard	$.79	$.71
31923EX	3.15" metal (chrome) guard	.79	.65
25734EX	4.68" metal (chrome) guard	1.09	.89
138579EX	3.15" alum. washable filter	2.95	2.65
130104EX	4.68" alum. washable filter	3.49	3.19



120037EX

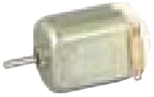


138579EX/130104EX

COLOR CODE LEGEND...
NEW SALE REFURBISHED CLOSEOUT

3-26VDC Motors

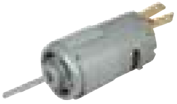
star motor GBM


154915EX

231925EX

177498EX

232012EX

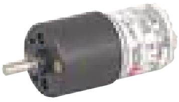

237382EX

Part Number	Product Number	Manufacturer	Efficiency	Nominal Voltage (VDC)	Voltage Range (VDC)	@ Maximum Efficiency Current (Amps)	RPM	Torque (g-cm)	Terminal Type	Shaft Dia. (in.)	Shaft Length (in.)	Size (D" x L")	Pricing 1	10
231861EX	UE-260-2850	Nichibo	34.88	1.5	1.5-3	1.150	4260	13.35	Solder	0.078	0.314	0.94 x 1.06	**$1.25**	**$1.09**
154915EX	ST-130-12240	Star Motor	55	3	1.5-3	0.170	3588	7.4	Solder	0.080	0.370	0.79 x 1.13	**1.09**	**.93**
231909EX	FE-260-18130	Nichibo	49.63	3	1.5-4.5	0.360	4780	10.27	Solder	0.078	0.314	0.94 x 1.06	**.99**	**.89**
231925EX	FE-260-2295	Nichibo	53.91	3	1.5-4.5	0.630	6850	13.96	Solder	0.078	0.314	0.94 x 1.06	**.99**	**.89**
231781EX	PC-130F-12240	Nichibo	33.39	6	3-9	0.254	6800	6.95	Solder	0.078	0.377	0.80 x 0.99	**2.09**	**1.89**
231992EX	UC-260-18160	Nichibo	49.85	6	3-9	0.571	7460	22.13	Solder	0.078	0.314	0.94 x 1.06	**1.49**	**1.35**
231984EX	UC-260-14275	Nichibo	48.84	6	6-12	0.208	4150	13.06	Solder	0.078	0.314	0.94 x 1.06	**1.49**	**1.35**
177498EX	RC280RA-2485	Mabuchi Motor	57	7.2	3-14	1.180	14260	33.3	Solder	0.080	0.430	0.95 x 1.20	**1.75**	**1.55**
231837EX	PC-280-15265	Nichibo	52.52	12	6-12	0.300	7230	24.96	Solder	0.078	0.433	0.94 x 1.20	**2.45**	**2.19**
232047EX	MD5-2445	Nichibo	65.98	12	6-12	2.050	19850	79.7	Solder	0.091	0.622	1.08 x 1.28	**2.25**	**1.99**
231757EX	PC-130SF-10315	Nichibo	44.60	12	6-18	0.250	6350	20.00	Solder	0.078	0.377	0.80 x 0.98	**2.09**	**1.89**
231749EX	PC-130SF-09400	Nichibo	42.50	12	6-24	0.150	5130	14.32	Solder	0.078	0.377	0.80 x 0.98	**2.09**	**1.89**
232012EX	MD5-12160	Nichibo	39.10	12	12-24	0.300	4000	34.29	Solder	0.091	0.622	1.08 x 1.28	**2.25**	**1.99**
237382EX	29SYT002	GBM	—	24	—	<0.930	>2680	178.4	Wire	0.100	0.334	0.79 x 1.89	**5.95**	**5.35**
232101EX	MD5-1980AS-AA	Nichibo	60.92	24	12-24	1.430	22600	88.5	Solder	0.091	0.512	1.08 x 1.28	**3.59**	**3.19**
237403EX	40SYT002	GBM	—	26	—	1.500	300	815	Quick Connect	0.196	1.021	1.57 x 3.85	**25.95**	**23.35**

HSIANG NENG

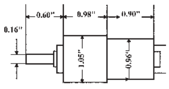
12 VDC Reversible Gear Head Motors

- Solder-type terminal
- High torque construction
- Oil bearing design for long service life
- Insulation resistance: 10MΩ
- Dielectric strength: 300VDC

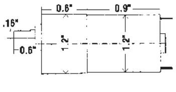

167038EX

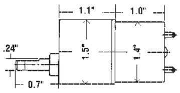
153437EX

155011EX



HN27GD Series

GH30GM Series


GH35GM Series


HN27GD Series

Part Number	Product Number	Rated Voltage	Operating Range (VDC)	No Load Current (mA)	Speed (rpm)	Started Torque (g-cm)	Gear Ratio	Gear Case Size Dia. x Length (in.)	Motor Size Dia. x Length (in.)	Shaft Size Dia. x Length (in.)	Pricing 1	10
167038EX	GH12-0953Y	12	4.5 – 24	45	14	1200	188:1	1.0 x 0.9	1.1 x 1.0	.16 x .60	**$16.49**	**$14.85**

GH30GM Series

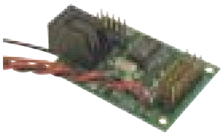
Part Number	Product Number	Rated Voltage	Operating Range (VDC)	No Load Current (mA)	Speed (rpm)	Started Torque (g-cm)	Gear Ratio	Gear Case Size Dia. x Length (in.)	Motor Size Dia. x Length (in.)	Shaft Size Dia. x Length (in.)	Pricing 1	10
153437EX	GH12-1045Y	12	3.0 – 12	35	15	800	200:1	0.9 x 1.0	1.1 x 0.6	.16 x .70	**$18.95**	**$17.09**
162190EX	GH12-1324Y225	12	4.5 – 12	65	225	700	30:1	1.0 x 0.9	1.1 x 0.6	.16 x .70	**16.95**	**15.25**

GH35GM Series

Part Number	Product Number	Rated Voltage	Operating Range (VDC)	No Load Current (mA)	Speed (rpm)	Started Torque (g-cm)	Gear Ratio	Gear Case Size Dia. x Length (in.)	Motor Size Dia. x Length (in.)	Shaft Size Dia. x Length (in.)	Pricing 1	10
155011EX	GH12-1926	12	4.5 – 12	55	2	15000	3000:1	1.3 x 0.9	1.5 x 1.1	.23 x .90	**$21.95**	**$19.79**
155820EX	GH12-1830Y-P	12	4.5 – 12	50	4.5	13000	1000:1	1.3 x 0.9	1.5 x 1.0	.23 x .90	**21.95**	**19.79**
155838EX	GH12-1641T-L	12	3.0 – 12	65	20	10000	270:1	1.3 x 0.9	1.5 x 0.8	.23 x .90	**23.95**	**21.59**
152910EX	GH12-1926Y	12	4.5 – 12	48	44	11800	100:1	1.3 x 1.0	1.5 x 0.7	.24 x .90	**21.95**	**19.75**
151440EX	GH12-1632TI	12	4.5 – 12	75	69	11000	100:1	1.3 x 0.9	1.5 x 0.7	.23 x .90	**21.95**	**18.55**
155854EX	GH12-1641T-F	12	3.0 – 12	65	87	7000	60:1	1.3 x 0.9	1.4 x 0.9	.23 x .90	**21.95**	**19.79**
155862EX	GH12-1926Y-F	12	4.5 – 12	60	100	5000	60:1	1.3 x 0.9	1.4 x 0.9	.23 x .90	**21.95**	**19.79**
161373EX	GH12-1345T	12	4.5 – 12	185	116	650	30:1	1.3 x 0.9	1.5 x 0.7	.23 x .90	**23.95**	**21.59**
161381EX	GH12-1634T	12	4.5 – 12	111	200	3600	30:1	1.3 x 0.9	1.4 x 0.7	.23 x .90	**21.95**	**19.79**
164785EX	GH12-1640Y	12	4.5 – 24	45	300	800	10:1	1.3 x 0.9	1.4 x 0.7	.23 x .90	**23.95**	**21.59**

Scott Edwards Electronics, Inc.

Serial Servo Controller Module

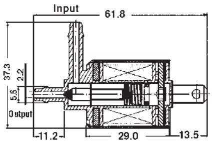


- Controls 8 pulse-proportional servos
- Receives serially at 2400 or 9600 baud
- Module is addressable, thus allowing two units to share the same line to control a total of 16 servos
- Connections to serial input can be established using modular adapter from DB9 to RJ11 (P/N 114737EX, pg 77) • Size (PCB): 1.9"L x 1.4"W • One-year warranty

Part No.	Description	1	10
151001EX	Serial servo controller module	**$43.95**	**$41.79**

12VDC Solenoid Valve

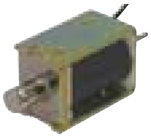
- Operating voltage: 12VDC
- Operational temperature: -29˚C to 85˚C
- Current: 350mA
- Air leakage: 1c.c./min. max. 4psi
- 0.250" quick disconnect terminals
- Size: 1.2"L x 0.92"Dia • Weight: 0.1 lbs.

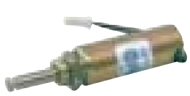


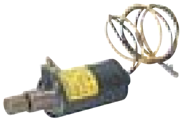
Part No.	Description	1	10
169834EX	Solenoid valve	**$6.95**	**$6.25**

12VDC Continuous Push and Pull Solenoids

262262EX


262271EX


142463EX


163803EX

149761EX

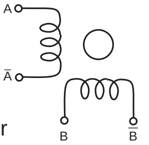
Part No.	Mfr. Cross Reference No.	Type	Voltage (VDC)	Coil Res. (±10%) (Ohms)	Power Consump. (W)	Holding Force (lbs. @ 20°C)	Stroke	Size L x Dia. (in.) †	Shaft Dia. (in.)	Wt. (lbs.)	Pricing 1	Pricing 10
262262EX	SMO-0837L12STD	Open frame-pull	12	36	4.0	1.10	0.24	1.5 x 1.0 x 0.8	0.310	0.21	**$7.29**	**$6.56**
262271EX	SMO-0837S12STD	Open frame-push	12	36	4.0	1.10	0.24	1.5 x 1.0 x 0.8	0.08/0.31*	0.21	**8.39**	**7.59**
142463EX	SMT-1130L12A	Tubular-pull	12	36	4.0	0.63	0.40	1.6 x 0.4	0.150	0.04	**6.95**	**6.26**
163803EX	A420-067074-01	Tubular-push	12	43	3.4	0.75	0.17	2.0 x 0.6	0.156	0.10	**9.95**	**7.65**
149761EX	SMT-1632S12A	Tubular-push	12	21	7.0	1.50	0.24	2.5 x 0.6	0.098	0.10	**10.95**	**9.86**

†Open frame type dimensions: L" x W" x H"; *Dual shaft

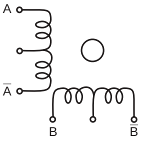
GBM Bipolar and Unipolar Stepper Motors

- Bearing type: ball
- Dielectric strength: 500V, 50Hz/minute
- 18" lead wires
- Ambient temperature: -10˚C to +55˚C
- Insulation resistance: 100MΩ @ 500VDC
- Use P/N 161998EX, see website for shaft coupler

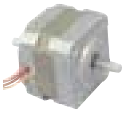
GBM is an ISO-9001 Certified Company



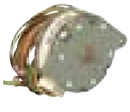
Bipolar

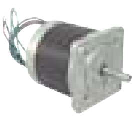


Unipolar


155459EX (Fig. 1)

173180EX (Fig. 2)


213321EX (Fig. 3)


162026EX (Fig.4)

237622EX (Fig.5)

Part Number	Mfr. Cross Ref. No.	Fig.	Step Angle	No. of Phases	Drive System	Volt. (VDC)	Phase Resis. (Ohms)	Curr. (mA)	Phase Inductance (mH)	Detent Torque (g-cm)	Holding Torque (g-cm)	Mounting Hole Space Diagonal (in.)	Mounting Holes (in.)	Shaft Dia. (in.)	Shaft Length (in.)	Motor Dia. (in.)	Motor Height (in.)	Pricing 1	Pricing 10
237526EX	48BYGH001	1	1.8˚	2	Bipolar	2	2.1	950	2.3	200	1700	1.22	0.10	0.200	0.95	1.67	1.34	**$16.49**	**$14.85**
237518EX	42BYG017	1	1.8˚	2	Bipolar	6.3	15	420	16	150	1400	1.22	0.10	0.200	0.51	1.67	1.34	**16.49**	**14.85**
155459EX	42BYG023*	1	1.8˚	2	Bipolar	12	30	400	36	220	2100	1.73	0.1	0.197	0.6	1.7	1.3	**17.95**	**16.29**
237569EX	57BYG009	4	1.8˚	4	Unipolar	2.4	1	2400	1.5	—	5995	1.86	0.20	0.250	0.83	2.29	2.20	**32.29**	**29.09**
237551EX	57BYG008	4	1.8˚	4	Unipolar	4	3.1	1300	4.4	—	4996	1.86	0.20	0.250	0.83	2.29	2.01	**29.95**	**26.95**
237622EX	57BYGH802	5	1.8˚	4	Unipolar	4.8	3.2	1500	2.9	—	8157	1.86	0.20	0.250	0.83	2.24	2.20	**37.69**	**33.95**
223870EX	57BYG070	4	1.8˚	4	Unipolar	5.4	3.6	1500	6	977	8974	2.65	0.20	0.25	0.80	2.20	2.00	**49.95**	**44.95**
173180EX	30BYJ02AH[1]	2	.09°	4	Unipolar	12	200	60	49.5	400	400	1.42	0.14	0.194	0.36	1.18	.68	**11.49**	**10.34**
237542EX	57BYG007	4	1.8˚	4	Unipolar	12	32	380	30	—	2997	1.86	0.20	0.250	0.83	2.29	1.61	**25.95**	**23.35**
213321EX	35BY48-27	3	7.5°	4	Unipolar	12	15	800	68	90	460	1.96	0.13	0.078	0.25	1.38	0.83	**17.95**	**14.35**
162026EX	57BYG084	4	1.8˚	4	Unipolar	12	20	600	22	725	6000	2.65	0.2	0.250	1.0	2.2	2.0	**26.95**	**24.29**
224021EX	42BYG016	2	1.8˚	4	Unipolar	12	75	160	40	150	900	1.73	0.10	0.20	0.70	1.70	0.50	**16.95**	**15.25**
155432EX	42BYG228	2	1.8˚	4	Unipolar	12	30	400	23	220	2000	1.73	0.10	0.20	0.90	1.70	0.50	**17.95**	**16.29**

* Dual shaft

[1] **173180EX:** Motor step angle 7.5˚; Gear ratio 85.25:1

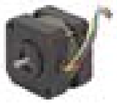
Bipolar and Unipolar Stepper Motors

- Excellent for precision control
- See website for compatible power supplies
- Can be operated in forward/reverse mode

SALE

117954EX (Fig. 1)

163408EX (Fig. 2)



Part Number	Mfr. Cross Ref. No.	Fig.	Step Angle	No. of Phases	Drive System	Volt. (VDC)	Phase Resis. (Ohms)	Curr. (mA)	Phase Inductance (mH)	Detent Torque (g-cm)	Holding Torque (g-cm)	Mounting Hole Space Diagonal (in.)	Mounting Holes (in.)	Shaft Dia. (in.)	Shaft Length (in.)	Motor Dia. (in.)	Motor Height (in.)	Pricing 1	Pricing 10
117954EX	LB82773-M1	1	7.5°	2	Bipolar	5	6	800	7	100	1080	2.60	1.95	0.250	0.75	2.25	1.00	**$4.29**	**$3.89**
163408EX	4017-806[1]	2	1.8°	2	Bipolar	9.2	38	240	52	36	664	1.73	0.15	0.155	0.23	1.66	1.25	**2.49**	**2.15**
164056EX	M82101-P1	1	7.5°	3	Unipolar	5	20	255	5	9	94	1.4	0.13	0.078	0.35	1.00	0.46	**1.85**	**1.69**
171601EX	PF35T484L[2]	1	3.6˚	4	Unipolar	7	20	350	9	40	680	1.68	0.14	0.078	0.47	1.38	0.58	**4.99**	**4.49**

[1] **163408EX:** Dual shaft [2] **171601EX** Dual shaft with 10 tooth gear

Energizer NiCad Rechargeable Batteries for Cordless Phones

NEW

Energizer cordless phone batteries offer the long life and consistent reliable performance you need to get the most out of your cordless phone.

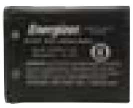
249341EX

- 3.6V @ 300mAh
- Replaces: AT&T 2422 / 3000 / 4051; GE TL96155; GE/Sanyo GES-PCH03; Hi-capacity B-702; Panasonic P-P303PA; RCA BT-12; Sony BP-T27; South Western Bell S60506; V-Tech 80-5074-00-00

249332EX

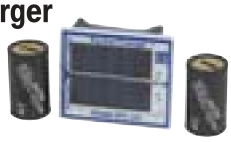
- 3.6V @ 600mAh
- Replaces: Sony SP-A2470 / SP-A9171 / SP-S9000 / SP-S9101 / SP-S9104

249341EX


249332EX

Part No.	Product No.	1	5
249341EX	P-3303	**$7.95**	**$7.55**
249332EX	ER-P276	**13.95**	**13.25**

Solar Pocket Charger



Charge your batteries with free solar power. Inexpensive, easy and safe to use—no moving parts or cords. Re-energizes carbon-zinc, alkaline, nickel-cadmium (NiCad), and nickel-metal-hydride (NiMH) batteries.

SALE

- Size: 3.6"L x 3.1"W x 1.5"D

Includes: Battery adapter for AA, C, and D type batteries.

Part No.	Description	1	10
215239EX	Solar pocket charger ~~$32.89~~ **$26.35**		**$23.69**

Zinc Chloride, Alkaline, Lithium and NiCad Batteries

Zinc Chloride

Part No.	Mfr. Cross Ref.	Figure	Size	Volts	mAh	Terminals/Connection	Dimensions	1	10	25
151087EX	AA	1	AA	1.5	700	Barrel Pressure	1.9"L x 0.545"Dia.	**$.22**	**$.21**	**$.20**
151095EX	GF6F22	2	9V	9	300	—	1.7"L x 1.0"W x 0.67" Dia	**1.25**	**.99**	**.79**

Fig. 1

Fig. 2

Alkaline

Part No.	Mfr. Cross Ref.	Figure	Size	Volts	mAh	Terminals/Connection	Dimensions	1	10	25
249181EX	LR031.5V	3	AAA	1.5	—	3-pack	1.645"L x 0.404"Dia.	**$1.49**	**$1.27**	**$.95**
150965EX	840	4	—	4.5	600	Batt. Pack w/Con. (Apple®)	1.14"L x 0.73"W x 0.96"H	**9.95**	**8.99**	**8.09**
198791EX	MN1604	2	9V	9	500	—	1.73"L x 1.03"W x 0.67"H	**2.85**	**2.55**	**2.29**

Fig. 3

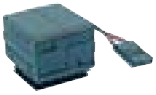


Fig. 4

Lithium & Lithium Ion

Fig. 1

Fig. 2

Fig. 3

Fig. 4

Fig. 5

Fig. 6

Fig. 7

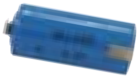


Fig. 8

Part No.	Mfr. Cross Ref.	Figure	Size	Volts	mAh	Terminals/Connection	Dimensions	1	10	25
240258EX	CR123A	1	—	3	1300	Photo/Computer	1.36"L x 0.65"Dia.	**$2.66**	**$2.47**	**$2.35**
33371EX	TL5101P	2	—	3.6	850	Barrel w/Leads (Clock/Mem.)	0.93"L x 0.56"Dia.	**5.79**	**5.27**	**4.45**
33398EX	TL5104P	3	—	3.6	1900	Barrel w/Leads (Clock/Mem.)	1.88"L x 0.56"Dia.	**5.95**	**5.49**	**5.19**
146114EX	TL2100S	4	—	3.6	1900	Barrel Pres. (Clock/Mem.)	1.91"L x 0.56"Dia.	**6.95**	**6.29**	**5.65**
240186EX	CR1616	—	Coin Cell	3	55	Clock/memory/watch	0.07"Dia. x 0.61"Th.	**.69**	**.63**	**.60**
240207EX	CR2016	—	Coin Cell	3	75	Clock/memory/watch	0.07"Dia. x 0.79"Th.	.38	.36	.34
240215EX	CR2025	—	Coin Cell	3	150	Clock/memory/watch	0.10"Dia. x 0.78"Th.	**.32**	**.30**	**.28**
11789EX	CR2325	5	Coin Cell	3	165	Clock/memory/watch	0.91"Dia. x 0.13"Th.	**1.49**	**1.34**	**1.14**
14162EX	CR2032	—	Coin Cell	3	180	Clock/memory/watch	0.79"Dia. x 0.13"Th.	1.25	1.00	.75
240223EX	CR2335	—	Coin Cell	3	300	Clock/memory/watch	0.14"Dia. x 0.92"Th.	**1.22**	**1.11**	**1.00**
240231EX	CR2450	—	Coin Cell	3	500	Clock/memory/watch	0.18"Dia. x 0.97"Th.	1.09	.98	.88
126754EX	TL5101S	6	Sub-AA	3.6	850	Macintosh®	0.95"L x 0.56"Th.	**6.95**	**6.29**	**5.65**
240266EX	ER14250	7	Sub-AA	3.6	1000	Consumer Tip	1.00"L x 0.55"Dia.	**3.99**	**3.89**	**3.81**
263951EX	ER14335	8	Sub-AA	3.6	1450	With solder tabs	1.30"L x 0.55"Dia.	**4.59**	**4.43**	**4.19**
240282EX	ER14335	9	Sub-AA	3.6	1450	Consumer Tip	1.30"L x 0.55"Dia.	**4.59**	**4.45**	**4.19**
240303EX	ER14505	10	AA	3.6	2400	Consumer Tip	2.00"L x 0.55"Dia.	**5.19**	**4.85**	**4.55**
263935EX	ER14505	11	AA	3.6	2100	With solder tabs	2.00"L x 0.55"Dia.	**4.99**	**4.38**	**4.14**
263943EX	ER14505	12	AA	3.6	2100	With axial leads	2.00"L x 0.57"Dia.	**5.35**	**4.99**	**4.70**
240320EX	ER17335	13	Sub-A	3.6	1450	Consumer Tip	1.30"L x 0.67"Dia.	**5.25**	**4.75**	**4.39**
240160EX	ER26500	14	C	3.6	8500	Consumer Tip	2.00"L x 1.02"Dia.	**11.95**	**11.50**	**11.05**
240151EX	ER34615	15	D	3.6	16500	Consumer Tip	2.40"L x 1.34"Dia.	**15.05**	**14.49**	**13.95**
244646EX	UR18650H1	16	—	3.6	2200	Flat Top Lithium Ion (rechargeable)	2.60"L x 0.71"Dia.	**17.55**	**15.79**	**14.21**

* Samsung

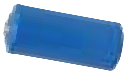
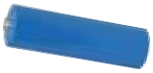


Fig. 9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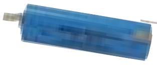
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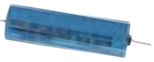
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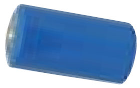
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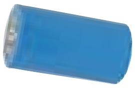


Fig. 14

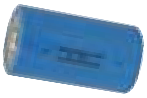


Fig. 15

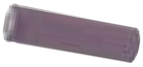


Fig. 16

Fig. 17

Fig. 18

NiCad

Part No.	Mfr. Cross Ref.	Figure	Size	Volts	mAh	Terminals/Connection	Dimensions	1	10	25
244662EX	AAA-240	17	AAA	1.2	240	Flat top	1.70"L x 0.40"Dia.	**$1.89**	**$1.85**	**$1.80**
244540EX	AAA-240-CT	18	AAA	1.2	240	Consumer Tip	1.70"L x 0.40"Dia.	**1.89**	**1.85**	**1.80**
244380EX	2/3AA-320	19	2/3AA	1.2	320	Flat Top	1.10"L x 0.55"Dia.	**1.35**	**1.17**	**1.09**
244443EX	4/5AA-600	20	4/5AA	1.2	600	Flat Top	1.70"L x 0.55"Dia.	**1.15**	**1.03**	**.93**
244486EX	AA-600	21	AA	1.2	600	Flat Top	1.90"L x 0.55"Dia.	**1.25**	**1.22**	**1.19**
261657EX	AA-700-CT	22	AA	1.2	700	Consumer Tip	1.90"L x 0.55"Dia.	**1.37**	**1.25**	**.96**
244515EX	AA-1000-CT	22	AA	1.2	1000	Consumer Tip	1.90"L x 0.55"Dia.	**2.65**	**2.43**	**2.33**
244507EX	AA-1000	21	AA	1.2	1000	Flat Top	1.90"L x 0.55"Dia.	**2.65**	**2.43**	**2.33**
244355EX	1/3A-250	23	1/3A	1.2	250	Flat Top	0.65"L x 0.65"Dia.	**1.31**	**1.18**	**1.06**
244371EX	2/3A-650	24	2/3A	1.2	650	Flat Top	1.10"L x 0.65"Dia.	**1.79**	**1.65**	**1.60**
244603EX	TY-2/3A-1100HD	24	2/3A	1.2	1100	Flat Top	1.10"L x 0.65"Dia.	**1.99**	**1.81**	**1.71**
244427EX	4/5A-1100	25	4/5A	1.2	1100	Flat Top	1.70"L x 0.65"Dia.	**1.65**	**1.45**	**1.39**
244363EX	1/3C-700	—	1/3C	1.2	700	Flat Top	0.87"L x 1.00"Dia.	**2.59**	**2.33**	**2.10**
244339EX	1/2C-800	26	1/2C	1.2	800	Flat Top	0.95"L x 1.00"Dia.	**2.87**	**2.58**	**2.32**
244574EX	SC-1500	27	Sub-C	1.2	1500	Flat Top	1.70"L x 0.89"Dia.	**2.15**	**1.98**	**1.87**
244953EX	SC-1500HT	27	Sub-C	1.2	1500	Flat Top, High Temp.	1.70"L x 0.89"Dia.	**2.39**	**2.14**	**2.00**
244654EX	SC-1900	27	Sub-C	1.2	1900	Flat Top	1.70"L x 0.89"Dia.	**3.68**	**3.23**	**3.08**
244671EX	C-2000	28	C	1.2	2000	Flat Top	1.90"L x 1.00"Dia.	**4.25**	**3.96**	**3.92**

Fig. 19

Fig. 20

Fig. 21

Fig. 22

Fig. 23

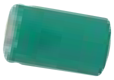


Fig. 24

Fig. 25

Fig. 26

Fig. 27

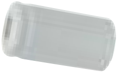


Fig. 28

More Batteries Located On Our Website - www.Jameco.com

NiCad and NiMH Batteries (continued)

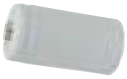


Fig. 1

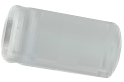


Fig. 2

Fig. 3

Fig. 4

Fig. 5

Fig. 6

Fig. 7

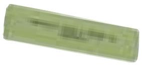


Fig. 8

Fig. 9

NiCad (continued)

Part No.	Mfr. Cross Ref.	Figure	Size	Volts	mAh	Terminals/Connection	Dimensions	1	10	25
244523EX	C-2200-CT	1	C	1.2	2200	Consumer Tip	1.90"L x 1.00"Dia.	**$4.25**	**$3.96**	**$3.92**
244531EX	C-2500-CT	1	C	1.2	2500	Consumer Tip	1.90"L x 1.00"Dia.	**5.15**	**4.86**	**4.65**
244961EX	C-2500HT	2	C	1.2	2500	Flat Top, High Temp	1.90"L x 1.00"Dia.	**5.25**	**4.74**	**4.60**
244689EX	C-2500	2	C	1.2	2500	Flat Top	1.90"L x 1.00"Dia.	**5.15**	**4.86**	**4.65**
244398EX	2/3SC-650	3	2/3SC	1.2	650	Flat Top	1.00"L x 0.89"Dia.	**2.85**	**2.50**	**2.36**
244401EX	2/3SC-700	3	2/3SC	1.2	700	Flat Top	1.00"L x 0.89"Dia.	**3.15**	**2.73**	**2.52**
244451EX	4/5SC-1250	—	4/5SC	1.2	1250	Flat Top	1.30"L x 0.89"Dia.	**2.85**	**2.56**	**2.35**
244460EX	5/4SC-2300	—	5/4SC	1.2	2300	Flat Top	1.90"L x 0.89"Dia.	**6.05**	**5.57**	**5.05**
244347EX	1/2D-2200	4	1/2D	1.2	2200	Flat Top	1.40"L x 1.30"Dia.	**4.29**	**4.05**	**3.85**
244566EX	2/3D-2800	—	2/3D	1.2	2800	Flat Top	1.70"L x 1.30"Dia.	**5.25**	**4.73**	**4.35**
244697EX	D-5000	5	D	1.2	5000	Flat Top	2.40"L x 1.30"Dia.	**7.79**	**7.60**	**7.45**
244558EX	D-5000-CT	6	D	1.2	5000	Consumer Tip	2.40"L x 1.30"Dia.	**7.79**	**7.60**	**7.45**
244419EX	3/2D(F)-8000	7	F	1.2	8000	Flat Top	3.45"L x 1.30"Dia.	**20.55**	**18.89**	**16.99**

NiMH

Part No.	Mfr. Cross Ref.	Figure	Size	Volts	mAh	Terminals/Connection	Dimensions	1	10	25
244937EX	PRIZ-F6(48)-700	—	—	1.2	700	Flat Top-Prizmatic	1.86"L x 0.65"W x 0.23"T	**$3.12**	**$2.81**	**$2.53**
244945EX	PRIZ-7/5F6-1100	8	—	1.2	1100	Flat Top-Prizmatic	2.63"L x 0.65"W x 0.23"T	**4.11**	**3.69**	**3.33**
244582EX	2/3AAA-300	9	2/3AAA	1.2	300	Flat Top	1.11"L x 0.40"Dia.	**1.49**	**1.25**	**.99**
244785EX	5/4AAA-750	10	5/4AAA	1.2	750	Flat Top	2.00"L x 0.40"Dia.	**2.29**	**2.11**	**2.05**
261665EX	AAA-700FT	11	AAA	1.2	700	Flat Top	1.70"L x 0.40"Dia.	**2.21**	**1.99**	**1.91**
244806EX	4/5AA-1200	12	4/5AA	1.2	1200	Flat Top	1.70"L x 0.55"Dia.	**3.25**	**2.93**	**2.63**
244814EX	AA-1800	13	AA	1.2	1800	Flat Top	1.90"L x 0.55"Dia.	**2.35**	**2.12**	**1.99**
244822EX	AA-1800-CT	14	AA	1.2	1800	Consumer Tip	1.90"L x 0.55"Dia.	**2.35**	**2.12**	**1.99**
244831EX	4/3AA-1900	15	4/3AA	1.2	1900	Flat Top	2.60"L x 0.55"Dia.	**6.89**	**6.20**	**5.58**
244849EX	1/5A-400	16	1/5A	1.2	400	Flat Top	0.70"L x 0.65"Dia.	**2.39**	**2.15**	**1.93**
244857EX	2/3A-1100	17	2/3A	1.2	1100	Flat Top	1.10"L x 0.65"Dia.	**3.59**	**3.07**	**2.99**
244864EX	4/5A-1800	18	4/5A	1.2	1800	Flat Top	1.70"L x 0.65"Dia.	**3.15**	**2.97**	**2.78**
244970EX	A-2200	19	A	1.2	2200	Flat Top	1.90"L x 0.65"Dia.	**3.69**	**3.49**	**3.25**
244620EX	9V-200	20	9V	9	200	Flat Top	1.94"L x 0.65"Dia.	**7.79**	**6.92**	**6.22**
244873EX	4/3A-2500	21	4/3A	1.2	2500	Flat Top	2.60"L x 0.65"Dia.	**5.29**	**5.01**	**4.68**
244890EX	SC-2900-HD	22	Sub-C	1.2	2900	Flat Top, High Discharge	1.70"L x 0.90"Dia.	**6.49**	**6.04**	**5.89**
244902EX	D-9000	23	D	1.2	9000	Flat Top	2.40"L x 1.30"Dia.	**21.44**	**17.54**	**16.08**
244911EX	D-9000-CT	23	D	1.2	9000	Consumer Tip	2.40"L x 1.30"Dia.	**21.44**	**17.54**	**16.08**

Fig. 10

Fig. 11

Fig. 12

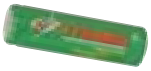


Fig. 13

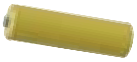


Fig. 14

Fig. 15

Fig. 16

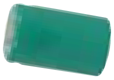


Fig. 17

Fig. 18

Fig. 19

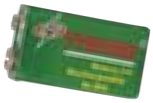


Fig. 20

Fig. 21

Fig. 22

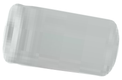


Fig. 23

Long-Lasting Rechargeable NiMH Batteries & Chargers

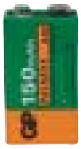
Why buy & throw away hundreds of batteries? Now you can reuse longer-lasting, money saving NiMH rechargeable batteries instead! They feature twice the power of NiCad batteries, so they're ideal for power-hungry devices like digital cameras and camcorders. The chargers below are specifically designed for NiMH batteries.

231095EX

231087EX

231116EX

231124EX


231108EX

NiMH Batteries

Part No.	Description	1	10
231095EX	2x AAA, 600mAh	**$6.95**	**$6.25**
231087EX	4x AA, 1600mAh	**13.95**	**12.55**
231116EX	2x C, 3000mAh	**10.49**	**9.45**
231124EX	2x D, 7000mAh	**19.59**	**17.65**
231108EX	1x "9V", 150mAh	**8.39**	**7.95**

NiMH Chargers

231141EX: Compact battery charger with 4 AA batteries

231132EX: Universal battery charger for AAA, AA, C, D and "9V" cells (batteries not included)

- Selector switch for NiCad or NiMH type batteries
- Recharge batteries in single or group
- Automatic charging current selection for different size of batteries
- Fast charging in the specified period with automatic switch for trickle charge
- LED lamp to indicate proper charging
- Built-in IC timer control

231141EX

231132EX

Part No.	Description	1	5
231141EX	Compact AA charger	**$19.95**	**$17.95**
231132EX	Universal charger	**19.95**	**17.95**

NiMH & NiCad Battery Charger

Charge your AA or AAA NiMH and AA NiCad batteries with this8-hour battery charger. Simply plug into a wall outlet. Red LED indicates charging and green LED indicates ready to use.

- Charging bay allows 4AA or 4AAA batteries to be charged at the same time (only AA NiCAD)
- Output: 4AA 1.35V @ 250mA or 4AAA 1.35V @ 95mA
- Size: 2.8" x 2.4" x 4.6"
- Weight: 1.0 lb.

SALE

Part No.	Description	1	10
217533EX	Plug-in charger	**$5.49**	**$4.95**

Compactly designed battery tester.

Simply lift the swivel arm of this battery tester, place your battery between the contacts and it will provide you a voltage measurement of your batteries. Tests AAA, AA, C, D, 9V, and button cell batteries.

Part No.	Description	Price
239556EX	Compact battery tester	**$4.99**

Lead Acid Batteries

- Sealed
- UL approved
- Rechargeable
- Two-year warranty

264014EX

264022EX

264031EX

264049EX

264057EX

264065EX

264073EX

Part Number	Product Number	Nominal Voltage	Amp-Hrs.	Cross Reference Panasonic	YUASA	Eagle Picher	Tempest	Terminal Size	Size (L" x W" x H")	Wt. (lbs.)	Pricing 1	10
264014EX	TY-6-4.5	6	4.5	LCR6VP	NP4-6	CF16V4	TR-4-6	Quick Connect 0.187"	2.8 x 1.9 x 4.0	1.9	**$8.99**	**$7.89**
264022EX	TY-6-10	6	10.0	LCR6V10P	NP10-6	CFM6V10	TR10-6	Quick Connect 0.187"	5.9 x 2.0 x 3.9	4.6	**14.45**	**12.97**
264031EX	TY-12-2.3	12	2.3	LCR12V2.2P	NP2.3-12	CF12V1.5	TR2.3-12	Quick Connect 0.187"	7.0 x 1.3 x 2.4	2.1	**15.39**	**14.59**
264049EX	TY-12-4.5	12	4.5	LCR12V4PF	NP412	CF12V4	TR4-12	Quick Connect 0.187"	3.5 x 2.8 x 4.0	3.8	**15.79**	**14.55**
264057EX	TY-12-7	12	7.0	LCR12V7.2BP	NP712	CFM12V65	TR7.5-12	Quick Connect 0.187"	5.9 x 2.6 x 3.7	5.6	**16.95**	**15.15**
264065EX	TY-12-12	12	12.0	PS12120	—	CFM12V12	TR12-12	Quick Connect 0.187"	5.9 x 3.9 x 3.9	9.0	**30.65**	**28.25**
264073EX	TY-12-18	12	18.0	LCR12V17BP	NPG18-12	CF12V18	TR18-12	Quick Connect 0.472"	7.1 x 3.0 x 6.6	13.3	**32.85**	**28.15**

Battery Holders, Snaps and Clip

Eliminate battery retention problems in portable DC power applications and products. High-retention snaps are made from special materials that maintain retention properties longer than conventional snaps. They can be with leads, or attached to battery holders.

Fig. 1

Fig. 2

Fig. 3

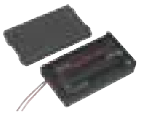


Fig. 4

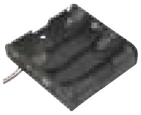


Fig. 5

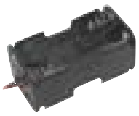


Fig. 6

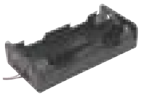


Fig. 7

Fig. 8

Fig. 9

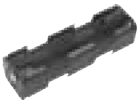


Fig. 10

Fig. 11

Part No.	Mfr. Cross Ref.	Fig.	Cells	Connector	Sides	Features	1	10
216080EX	BH-321-2A	2	2-AA	Wires	Single		**$.69**	**$.59**
216119EX	SBH-321-1AS	3	2-AA	Wires	Single	Cover/switch	**.79**	**.69**
216143EX	SBH-331-AS	4	3-AA	Wires	Single	Cover/switch	**.99**	**.79**
105857EX	✳	8	4-AA	Wires	Single	Wires w/ conn.	**.89**	**.75**
216178EX	BH-343-1A	6	4-AA	Wires	Dual		**.75**	**.55**
216186EX	SBH-341-1AS	9	4-AA	Wires	Single	Cover & switch	**1.09**	**.89**
216258EX	BH-382-B	10	8-AA	Snaps	Dual		**1.19**	**.99**
216311EX	SBH-431-1AS	4	3-AAA	Wires	Single	Cover & switch	**.79**	**.69**
216320EX	BH-441-1A	5	4-AAA	Wires	Single		**.99**	**.89**
216354EX	BH-221-A	2	2-C	Wires	Single		**1.09**	**.99**
216362EX	BH-242-1A	7	4-C	Wires	Single		**1.39**	**1.29**
216389EX	BH-121-1A	2	2-D	Wires	Single		**.89**	**.75**
216418EX	BH-143-1A	5	4-D	Wires	Single		**1.15**	**.89**
216426EX	BH-9V-A	1	1-9V	Wires	Single		**.79**	**.69**
38535EX	2S2032	11	1-CR2032	PC Mount	Coin Cell		**.59**	**.49**

✳ Battery holder used in many personal computers

9-Volt Battery Snaps and Clip

- Use with standard “9 volt” batteries
- Fully insulated; nickel-plated brass contacts
- Leads are color-coded, stripped and pre-tinned
- Snap: male outer dia. = 0.225"
- Female inner dia.: 0.215"

✳ **10 piece minimum**

Fig. 1

Fig. 2

Fig. 3

Fig. 4

Part Number	Fig.	Description	Dimensions (in.) L	W	H	Pricing 1	10
11279EX	1	3", 26 AWG, 6 prong battery snap	1.0	.50	–	**$.25**	**$.22**
105793EX	2	Battery holder clip	.63	.71	1.2	**.28**	**.23**
109153EX	3	6", 26 AWG, 6 prong battery snap	1.0	.50	–	✳	**.17**
101469EX	3	10", 26 AWG, 6 prong battery snap	1.0	.50	–	**.29**	**.25**
216451EX	4	6", 26 AWG, 6 prong battery snap	1.0	.50	–	**.34**	**.30**

Fuses

1¼" x ¼" Standard Fuses

Fast Acting Fuses (250V) AGC/3AG Fuses

- **Prepackaged: order in increments of 10 or 100**

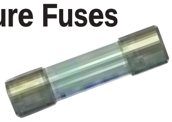
Part No.	Amps	Manufacturer	10	100
69403EX	250mA	Various	**$.20**	**$.18**
10410EX	500mA	Various	**.20**	**.18**
10372EX	1 amp	Various	**.20**	**.12**
10381EX	2 amp	Various	**.20**	**.12**
69438EX	3 amp	Various	**.20**	**.12**
197544EX	4 amp	Various	**.22**	**.20**
10401EX	5 amp	Various	**.22**	**.20**
197552EX	6.3 amp	Various	**.22**	**.20**
69462EX	10 amp	Various	**.25**	**.22**
186301EX	16 amp	Various	**.25**	**.22**

Slow Blow Fuses (250V) MDL/3AG Fuses

Part No.	Amps	Manufacturer	1	10
25638EX	1 amp	Various	**$.71**	**$.59**
25646EX	2 amp	Various	**.54**	**.43**
69534EX	3 amp	Various	**.54**	**.44**
25671EX	5 amp	Various	**.54**	**.44**
69569EX	10 amp	Various	**.74**	**.65**

5mm x 20mm Minature Fuses

Fast Acting (250V) GMA Fuses



- Recommended for new designs
- **Prepackaged: order in increments of 10 or 100**

Part No.	Amps	Manufacturer	10	100
103886EX	250mA	Various	**$.20**	**$.15**
102040EX	500mA	Various	**.20**	**.15**
103907EX	1 amp	Various	**.20**	**.15**
103915EX	2 amp	Various	**.20**	**.15**
103923EX	3 amp	Various	**.20**	**.15**
103931EX	5 amp	Various	**.20**	**.15**

Slow Blow Fuses (250V) GMA Fuses

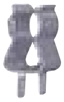
- **Prepackaged: order in increments of 10 or 100**

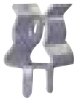
Part No.	Amps	Mfr.	10	100
197501EX	500mA	Various	**$.29**	**$.26**
197464EX	1 amp	Various	**.29**	**.25**
197472EX	2 amp	Various	**.35**	**.32**
197481EX	3.15 amp	Various	**.35**	**.32**
197499EX	5 amp	Various	**.35**	**.32**

Fuse Holders @ www.Jameco.com

Fuse Clips

- Low profile
- Low contact resistance
- Withstands shock and vibration


102859EX

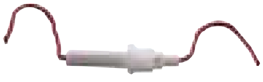

102841EX

Prepackaged: order in increments of 10 or 100

Part No.	Description	10	100
102859EX	5mm, front leads	**$.12**	**$.09**
119280EX	5mm, side leads	**.09**	**.08**
102841EX	1/4", front leads (10A)	**.09**	**.08**

In-Line Fuse Holders

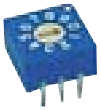
- Built-in spring ensures good fuse connection
- 1¼" x 1/4" standard
- Vinyl covered wire with stranded copper center
- Wire color: red; except for P/N 108783EX orange

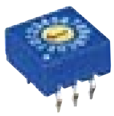

102867EX

Part No.	AWG	Wire Lgths	Body Size(L)	Body Color	1	10
102867EX	20	3/3"	2.2"	White	**$.65**	**$.58**
151917EX	18	6/6"	2.4"	White	**.99**	**.85**
108783EX	16	21/26"	2.2"	Black	**.99**	**.87**
108791EX	14	19/25"	2.5"	Black	**1.59**	**1.19**

Excell Rotary DIP Switches

- Gold plated contacts to ensure reliable, low resistance connection
- Fully sealed construction
- Terminals: PC pin leads
- Life: 10,000 cycles min.
- Material: 94V-0 grade, UL approved fire retardant plastic
- Ma. switching load rating: 25mA @ 24VDC
- Op force: 500gf-cm max.


139635EX


139651EX

Part No.	Product No.	Position	Adjust	Code Type	W" x D" x H"	1	10
139635EX	ERD110RS(DRD10)	10	top	BCD	0.39 x 0.39 x 0.20	**$2.59**	**$2.33**
139651EX	ERD116RS	16	top	Hex	0.39 x 0.20 x 0.39	**2.75**	**2.49**

Magnetic Reed Switches

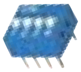
164081EX

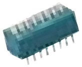
- NO (normally open) • Contact form: SPST

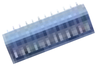
171871EX: • Rating: 500mA @ 100VDC **164081EX:** • Rating: 1A @ 250VAC; 1A @ 50VDC

Part No.	Product No.	Size (length includes leads)	1	10
171871EX	MKA141011015	1.73"L x 0.1"Dia.	**$.79**	**$.64**
164081EX	MRS1	2.35"L x 0.2"Dia.	**.79**	**.63**

DIP Switches


38818EX


38842EX


38797EX

- Switch contacts: SPST • Switches are numbered
- 50VDC @ 100mA • Molded construction
- Standard switches have raised lever
- LP switches are flush to casing • Pre-tinned leads

Compatible Socket Chart, see website for Sockets

Switch	Socket	Switch	Socket	Switch	Socket
38818EX	51570EX	**38826EX**	37161EX	**139002EX**	51570EX
139011EX	37372EX	**38842EX**	37372EX	**38797EX**	38607EX

Part No.	Mfr. Cross Ref. No.*	Pos.	1	10
38818EX	206-4	4	**$.65**	**$.55**
139002EX	206-4LP	4	**.79**	**.70**
38826EX	206-6	6	**.99**	**.89**
38842EX	206-8	8	**.89**	**.80**
139011EX	206-8LP	8	**.85**	**.76**
38797EX	206-10	10	**.95**	**.86**

* Manufacturer Cross Reference number and manufacturer may vary

Rotary Switches

See page 19 for knobs

101573EX

SALE

- Panel mount
- Make before break
- Solder lugs
- Layers: 1
- Contact rating: 30VDC @ 0.3A
- Insulation resistance: 10MΩ min.
- Contact resistance: 30mΩ
- Material: solid brass bushings, slotted aluminum shafts, plated frame, phenolic contact wafer (except for P/N 101565EX – plastic casing)
- Mounting hole diameter: 3/8"
- Lug size: 0.07" • Shaft size: 0.46" x 0.25"

101565EX : Shaft size: 1.16" x 0.25"

Includes: Washer and nut

Part Number	Mfr. Cross Ref. No.*	Poles	Position	Pricing 1	Pricing 10
101531EX	RS0261	1	12	**$1.29**	**$1.10**
101573EX	RS022	2	6	**1.35**	**1.15**
101565EX	RS023	3	4	**1.95**	**1.59**
101557EX	RS024	4	3	**1.09**	**.93**

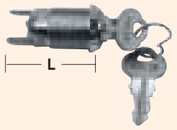
* Manufacturer Cross Reference number and manufacturer may vary

SPST Round Keylock Switches

- Used in computer & other security systems
- Key removable from 2 positions • Two keys
- Mounting hole = 0.75" except P/N 106649EX = 0.5"

196648EX: all keys are alike **Includes:** Mounting nut

106649EX



105831EX/196648EX

Part No.	Mfr. Cross Ref. No.	No. Flat, Dia.	Length	Terminal	Voltage/Current	Pricing 1	Pricing 10
106649EX	KS4B	2, .21"	.55"	Barrel	125VAC/3A	**$3.59**	**$3.29**
105831EX	KS3B	2, .66"	1.48"	.25" quick connect	125VAC/6A	**3.99**	**3.59**
196648EX	3313E-M	2, .66"	1.48"	.25" quick connect	125VAC/6A	**4.49**	**3.99**

12-Button Telephone Keypads

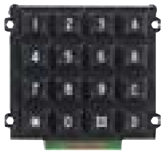
- White plastic
- 8-pin .100" header
- Tactile type keypad
- Contact rating: 12VDC @ 20mA
- Contact resistance: 200Ω max.
- Life test: 1,000,000 cycles per key
- Size: 2.8"L x 2.2"W x 0.6"H

153488EX

Part No.	Description	1	10
190561EX	Numeric keypad	**$8.75**	**$7.45**
153488EX	Alpha numeric keypad	**9.49**	**8.55**

16-Button Numeric Keypad

- 4 x 4 matrix keypad
- 8-position solder pad
- Contact rating: 24VDC @ 20mA
- Contact resistance: 200Ω max.
- Life test: 1,000,000 life cycles per key
- Size: 3.0"L x 2.8"W x 0.6"H

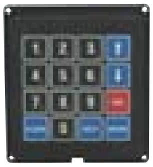


Part No.	Description	1	10
169244EX	Numeric keypad	**$7.95**	**$6.95**

16-Button Indoor/Outdoor Keypads

- 9-pin 0.100" headers
- Fully sealed snap-dome contact
- For indoor or outdoor use
- Contact rating: 24VDC @ 10mA resistive
- Life test: 3,000,000 cycles per key
- Compatible with MOS, TTL and DTL (10Ω max.)
- Recommended connector: P/N 103190EX header and 100765EX pin
- Size (housing): 4.7"W x 1.7"H x 0.4"T

196171EX


152063EX

✳ **Prepackaged: please order in increments of 10**

Part No.	Description	1	10
196171EX	2x8 matrix keypad	**$16.95**	**$15.29**
152063EX	4x4 matrix keypad	**14.95**	**13.49**
103190EX	Header housing (10-pin)	**.42**	**.39**
100765EX	Header pin (10 per pack)	✳	**.11**

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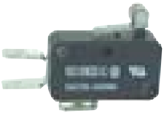
Click Action Basic Precision Switches

- 3 terminals: common; normal closed; normal open
- Dielectric strength: 1000VAC 50-60Hz for 1 min.
- Insulation resistance: 100MΩ min. (@ 500VDC)
- Type: NO-NC-common

159599EX


159572EX

159581EX

Part Number	Product Number	Description	Rating	Contact Resistance (initial)	Service Life Mechanically	Service Life Electrically	Terminals Type	Agency Approval	Pricing 1	Pricing 10
159599EX	SS0505A	Subminiature	5A @ 125VAC	30mΩ max.	10 million	200,000	.127" quick disconnect	UL	**$3.25**	**$2.92**
159572EX	VS10N051C	Micro (T90S1D12-12)	10A @ 250VAC	15mΩ max.	10 million	100,000	.183" quick disconnect	UL/CSA	**2.89**	**2.54**
159581EX	VS10N021C2	Micro	10A @ 250VAC	15mΩ max.	10 million	100,000	.183" quick disconnect	UL/CSA	**2.45**	**2.25**

Miniature Toggle Switches

- Mounting hole diameter: 1/4"

Includes: Mounting hardware

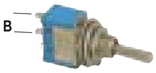


Fig. 1

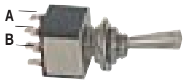


Fig. 2

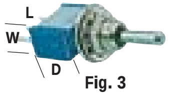


Fig. 3

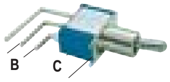


Fig. 4

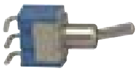


Fig. 5

Part No.	Mfr. Cross Ref. No.	Fig.	Pins	Type ( ) Momentary	Size (L" x W" x D")	Lead Spacing (A"/B"/C")			Contact Rating (A @ VAC)	Lead Type	Lever Type	1	10
76523EX	JMT113	1	2	SPST on-off	.52 x .32 x .38	—	.185	—	6 @ 125 & 3 @ 250	Solder lugs	Round	**$1.15**	**$1.03**
21936EX	JMT123	3	3	SPDT on-on	.52 x .32 x .38	—	.185	—	5 @ 125 & 2 @ 250	Solder lugs	Round	**1.15**	**1.03**
21910EX	JMT121	3	3	SPDT on-off-on	.52 x .32 x .38	—	.185	—	5 @ 125 & 2 @ 250	Solder lugs	Round	**1.35**	**1.25**
22832EX	LFH123	3	3	SPDT on-on	.52 x .28 x .36	—	.185	—	5 @ 125 & 2 @ 250	Solder lugs	Flat	**1.15**	**1.05**
75854EX	SWM132	3	3	SPDT on-on	.52 x .32 x .38	—	.185	—	6 @ 125 & 3 @ 250	Solder lugs	Round	**1.29**	**1.16**
75889EX	SWM129	3	3	SPDT (on)-off-(on)	.52 x .32 x .38	—	.185	—	6 @ 125 & 3 @ 250	Solder lugs	Round	**1.99**	**1.85**
26331EX	MPC123	3	3	SPDT on-on	.52 x .32 x .37	—	.185	—	6 @ 125 & 3 @ 250	PC	Round	**1.39**	**1.25**
26315EX	MPC121	3	3	SPDT on-off-on	.52 x .32 x .37	—	.185	—	5 @ 125 & 2 @ 250	PC	Round	**1.29**	**1.19**
71597EX	SWM148	4	3	SPDT on-on	.52 x .32 x .38	—	.185	.20	5 @ 125 & 2 @ 250	PC right angle	Round	**1.19**	**1.09**
75871EX	SWM145	5	3	SPDT on-on	.52 x .32 x .38	—	.185	.20	6 @ 125 & 3 @ 250	PC right angle	Round	**1.49**	**1.35**
22841EX	LFH221	2	6	DPDT on-off-on	.52 x .52 x .38	.20	.185	—	3 @ 125 & 1 @ 250	Solder lugs	Flat	**1.45**	**1.35**
21979EX	JMT223	2	6	DPDT on-on	.52 x .52 x .38	.20	.185	—	5 @ 125 & 2 @ 250	Solder lugs	Round	**1.49**	**1.29**
22859EX	LFH223	2	6	DPDT on-on	.52 x .52 x .38	.20	.185	—	5 @ 125 & 2 @ 250	Solder lugs	Flat	**1.29**	**1.19**
75900EX	SWM133	2	6	DPDT on-on	.52 x .52 x .38	.20	.185	—	6 @ 125 & 3 @ 250	Solder lugs	Round	**1.49**	**1.35**
21952EX	JMT221	2	6	DPDT on-off-on	.52 x .52 x .38	.20	.185	—	6 @ 125 & 3 @ 250	Solder lugs	Round	**1.29**	**1.16**
75951EX	SWM130	2	6	DPDT (on)-off-(on)	.52 x .52 x .38	.20	.185	—	6 @ 125 & 3 @ 250	Solder lugs	Round	**1.49**	**1.35**
26358EX	MPC221	2	6	DPDT on-off-on	.52 x .52 x .38	.20	.185	—	5 @ 125 & 2 @ 250	PC	Round	**1.29**	**1.16**

Subminiature Toggle Switches

- Mounting hole diameter: 7/32"
- Pre-tinned leads
- Metal construction **Includes:** Mounting hardware

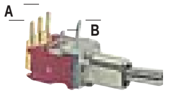
Fig. 1


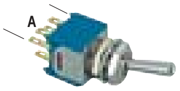
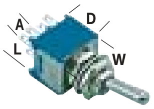
Fig. 2


Fig. 3


Part No.	Mfr. Cross Ref. No.	Fig.	Pins	Type	Size (L" x W" x D")	Lead Spacing (A"/B")		Contact Rating	Lead Type	Lever Type	1	10
106067EX	SWP124	1	3	SPDT on-on	.25 x .33 x .40	.20	.10	30mA @ 5VDC	PC right angle	Round	**$1.99**	**$1.83**
72160EX	SW1501	2	2	SPST on-off	.33 x .21 x .33	.10	—	1.5A @ 250VAC	Solder lugs	Round	**1.29**	**1.24**
75969EX	SWM136	2	3	SPDT on-on	.33 x .21 x .33	.10	—	3.0A @ 125VAC	Solder lugs	Round	**1.55**	**1.44**
72557EX	SW1502	2	3	SPDT on-off-on	.33 x .21 x .33	.10	—	1.5A @ 250VAC	Solder lugs	Round	**1.35**	**1.25**
138907EX	SW1503	2	6	DPDT on-off-on	.36 x .37 x .33	.10	—	3.0A @ 120VAC	Solder lugs	Round	**1.29**	**1.05**
75977EX	SWM137	3	6	DPDT on-on	.33 x .37 x .33	.17	.10	1.5A @ 250VAC	Solder lugs	Round	**1.29**	**1.05**

Pushbutton Switches

- Pins: 2 • Normally open & closed configurations
- Momentary action pushbutton switches

Includes: Mounting hardware

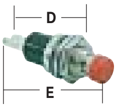
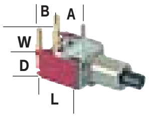


Fig.1



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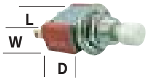

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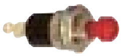


Fig. 4

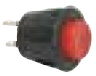


Fig. 5

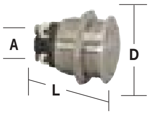
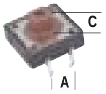


Fig. 6

Part No.	Mfr. Cross Ref. No.	Fig.	Mount Hole Dia.	Type ( ) Momentary	Size (L" x W" x D")	Lead Spacing (A"/B")		Contact Rating	Terminal Type	Button Color	1	10
26622EX	MS102	1	1/4"	SPST off-(on)	.65 (D) x 1.10 (E)	—	.14	3A @ 125VAC	Solder lugs	Red	**$.55**	**$.50**
26649EX	MS103	1	1/4"	SPST on-(off)	.65 (D) x 1.10 (E)	—	.17	3A @ 125VAC	Solder lugs	Black	**.55**	**.50**
71642EX	SWB210	2	7/32"	SPST off-(on)	.33 x .36 x .20	.20	.20	1A @ 120VAC	PC right angle	Black	**2.19**	**1.99**
121304EX	CK8121	3	1/4"	SPDT on-(on)	.52 x .27 x .38	—	.185	5A @ 125VAC	Solder lugs	White	**3.59**	**3.25**
164638EX	MS3120R	4	—	SPST off-(on)	1.1" L x .31" Dia.	.175"	—	3A @ 125VAC	Solder terminal	Red	**1.32**	**1.19**
106112EX	DS412R	5	—	SPST off-(on)	.63" L x .66" Dia.	.275"	—	3A @ 125VAC	Solder lugs	Red	**1.19**	**.99**
171774EX	AV191003C900	6	3/4"	SPST off-(on)	1.20" L x 0.87" Dia.	0.37"	—	2A @ 48VDC	Screw	Silver	**11.95**	**10.84**

Tactile Switch

- Bounce time: 10 msec.
- SPST momentary ON • Contact resistance: 100mΩ

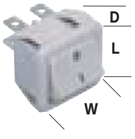


Part No.	Mfr. Cross Ref. No.*	Pins	Dimensions (in.)				Lead Spacing		Contact Rating	Lead Type	Button Color	Pricing	
			L	W	D	C	A"	B"				1	10
155379EX	KRS-1273B	4	.47	.47	.14	.14	.17	.53	50mA @ 12VDC	PC	Brown	**$.39**	**$.35**

*Manufacturer cross reference number and manufacturer may vary

PC Rocker Switch

- For mini-tower cases
- DPST
- Contacts rated at 250VAC
- UL/CSA approved
- Size: 0.9"L x 1.2"W x 1.4"D

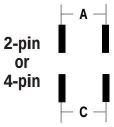


Part No.	Description	Current	1	10	100
127028EX	PC rocker	10A	**$2.95**	**$2.69**	**$2.39**

Full-Size Toggle Switches

- Panel mount • Mounting hole diameter: 1/2" • Full-size round lever
- Medium duty • Keyed plate indicates switch position

Includes: Mounting hardware and on/off plate



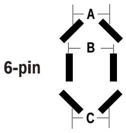
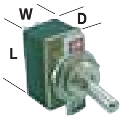


Fig. 1


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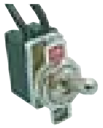


Part No.	Mfr. Cross Ref. No.	Fig.	Pins	Type	Dimensions L" x W" x D"	Lead Spacing			Contact Rating (A @ VAC)	Lead Type	Lever Type	Pricing	
						A"	B"	C"				1	10
76241EX	SWM128	1	2	SPST on-off	1.00 x .56 x .52	.23	—	—	4 @ 125 & 2 @ 250	Solder lugs	Round	**$1.49**	**$1.29**
158078EX	JKN3CC	1	6	DPDT on-on	1.19 x .76 x .73	.44	.59	.44	10 @ 125 & 6 @ 250	Screw lugs	Round	**1.75**	**1.59**
76232EX	SWM125	2	2	SPST on-off	1.00 x .53 x .51	—	—	—	6 @ 125 & 3 @ 250	6" lead wire	Round	**1.75**	**1.59**

DC/AC and DC/DC Solid State Relays

- Screw terminal with hardware
- Photo isolation
- Metal mounting base
- Manufacturer may vary

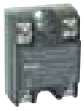
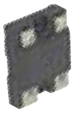


Fig.1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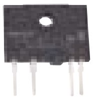


Fig. 3

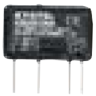


Fig. 4

Part No.	Product No.	Mfr.	Control Voltage	Type	Contact Style	Contact Voltage	Contact Curr.	Pins	Fig.	Terminal Type	Agency Approval	Size (L" x W" x H")	1	10
Solid State Relays DC/AC Type														
162341EX	ESR51024-010 †	Excel	3-32VDC	DC/AC	SPST	240VAC	10A	4	1	Screw Terminal	UL	2.3 x 1.7 x 1.1	**$15.95**	**$14.39**
162368EX	ESR51024-025 †	Excel	3-32VDC	DC/AC	SPST	240VAC	25A	4	1	Screw Terminal	UL	2.3 x 1.7 x 1.1	**21.95**	**19.79**
105081EX	615-8500 ⌘	Teledyne	3-32VDC	DC/AC	SPST	250VAC	10A	4	2	Screw Terminal	UL	2.3 x 1.7 x 1.1	**15.99**	**14.39**
164988EX	S101S02	Sharp	1.2VDC@20mA	DC/AC	—	125VAC	1.5A	4	3	Solder Lead	UL/CSA	0.9 x .16 x .63	**3.95**	**3.49**
164996EX	S202TA1	Sharp	1.2VDC@20mA	DC/AC	—	200VAC	2.0A	4	3	Solder Lead	UL/CSA	0.9 x .16 x .63	**4.95**	**4.49**
Solid State Relay DC/DC Type														
172591EX	KF0602D	Kyoto	3-32VDC	DC/DC	SPST	60VDC	2A	4	4	Solder Lead	—	1.4 x 0.3 x 0.9	**$9.95**	**$8.95**
175222EX	KF0604D	Kyoto	3-32VDC	DC/DC	SPST	60VDC	4A	4	4	Solder Lead	—	1.5 x 0.3 x 0.9	**11.95**	**11.25**

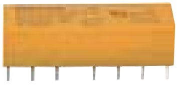
† Zero crossing ⌘ **Pull**

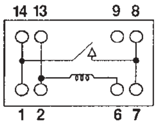
DIP Relays

- Logic control levels
- Moisture resistant
- Compatible with IC sockets
- Long life with reliable operation
- Compact design/ construction
- Excellent for PCB applications

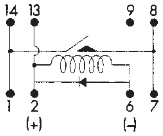
106462EX

99901EX

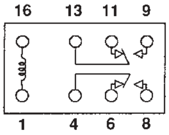

136549EX



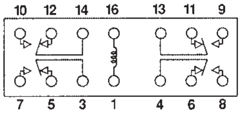
Schematic 1



Schematic 2



Schematic 3



Schematic 4

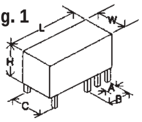
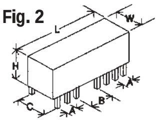
Fig. 1


Fig. 2


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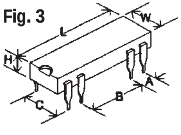
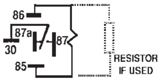


Part Number	Product Number	Manufacturer	Contact Schem.	Contact Form	Coil Voltage	Coil Ohms	Contact Voltage	Contact Current	Pins	Jameco Socket	Fig.	Size L x W x H (in.)	Leads A x B x C (in.)	Pricing 1	Pricing 10
106462EX	201A05	Excel Cell Elect.	1	SPST-NO	5VDC	500	100VDC	0.5A	8	37161EX	3	.78 x .25 x .20	.10 x .40 x .30	**$2.15**	**$1.81**
138430EX	2D1A05	Excel Cell Elect.	2	SPST-NO	5VDC	500	100VDC	0.5A	8	37161EX	3	.77 x .30 x .22	.10 x .40 x .30	**2.29**	**1.95**
106471EX	201A12	Excel Cell Elect.	1	SPST-NO	12VDC	1000	100VDC	0.5A	8	37161EX	3	.78 x .25 x .20	.10 x .40 x .30	**2.29**	**1.95**
173913EX	AZ831-2C-5DSE	American Zettler	3	DPDT	5VDC	125	125VAC/100VDC	.5A/1.25A	8	37401EX	1	.79 x .38 x .44	.18 x .28 x .29	**2.35**	**2.15**
139977EX	RSB5S	Shin Mei	3	DPDT	5VDC	125	120VAC/30VDC	1A/2A	8	37372EX	1	.79 x .39 x .37	.20 x .40 x .30	**2.49**	**2.25**
99311EX	DS2Y-S-DC12V*	Aromat (NAIS)	3	DPDT	12VDC	720	110VAC/30VDC	.3A/1A	8	37372EX	1	.79 x .40 x .43	.20 x .40 x .30	**2.49**	**2.31**
99901EX	LX200D00	Clare	3	DPDT	12VDC	720	125VAC/100VDC	2A	8	37372EX	1	.79 x .40 x .30	.20 x .40 x .30	**6.95**	**6.25**
99320EX	LM12E00*	NEC	3	DPDT	24VDC	1110	125VAC/100VDC	2A	8	37372EX	1	.79 x .40 x .43	.20 x .40 x .30	**2.95**	**2.69**
136549EX	DS4E-M-DC5V*	Aromat	4	4PDT	5VDC	62.5	125VAC/30VDC	.6A/2A	14	112299EX	2	1.40 x .40 x .36	.20 x .30 x .30	**5.49**	**4.95**

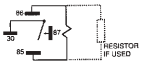
* Manufacturer and Manaufacturer Cross Ref. number may vary

Potter & Brumfield Type Plastic Enclosed Construction Relay

- Dielectric strength: 500VDC (between contact & coil)
- Operating temperature: -35°C to +85°C
- Contact current: 40A
- Coil voltage: 12VDC
- Normally open (NO), normally closed (NC)
- Terminal type: quick connect
- Dimensions: 1.1"L x 1.1"W x 1.0"H



Schematic 1



Schematic 2

VF4 Type Relays

Part No.	Mfr. Cross Ref. No.	P&B Cross Ref.	Contact Form	Coil Ohms	Schematic	Contact Voltage	Pins	1	10
171441EX	961A-1A12D	VF411F11	SPST-NO	90	2	14VDC	4	**$2.35**	**$2.20**
171432EX	961A-1C-12DM	VF481F11	SPDT	90	1	12VDC	5	**2.99**	**2.69**
148582EX	LD12F	VF485F11	SPDT	78	1	12VDC	5	**2.49**	**2.25**

VF4 Type Socket with Coil Diode

- For use with P/N 148582EX (above)
- Contact voltage/current: 12V/20A
- 12 AWG: 2 black and 1 blue wire
- 18 AWG: 1 black and 1 red wire
- 7.5" wire
- Diode coil suppression

Part No.	Mfr. Cross Ref. No.	Description	1	10
170624EX	RSDO3	Relay socket with coil diode (for P/N 148582EX, above)	**$2.35**	**$2.15**

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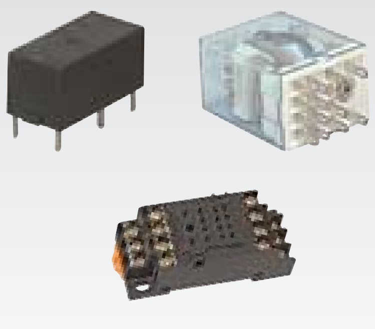

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NEW SALE REFURBISHED CLOSEOUT

General Purpose Relays

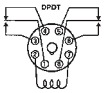
- DPDT • 8-pins

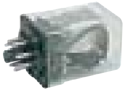
Pin Type Terminals – Series 78

- Contact voltage: 240VAC

Pin Type Terminals – Series 250

- Contact rating: 120/240VAC, 28VDC @ 10A
- Ambient temp. operating: -10˚C to +50˚C
- Size: 1.4"L x 1.4"W x 2.7"H





139740EX

172718EX

141145EX

Part No.	Mfr. Cross Ref. No.	P&B Cross Ref.	Coil Voltage	1	10
Series 78					
172718EX	SCL12DPDT	K10-11D15-R	12VDC	**$4.99**	**$4.49**
Series 250					
139766EX	BTA1-2C-12VDC	R02-11D10-12	12VDC	**$9.49**	**$8.55**
139740EX	BTA1-2C-120VAC	R02-11A10-120	120VAC	**9.95**	**8.79**

Series 250 Sockets

Part No.	Voltage	Current	Pins	Size	1	10
141145EX	250VAC	20 amps	8	2.0"L x 1.6"W x 0.8"H	**$3.99**	**$3.65**
141153EX	250VAC	20 amps	11	2.0"L x 1.7"W x 1.2"H	**5.19**	**4.85**

Rayex General Purpose Relays

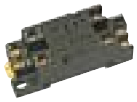
Potter and Brumfield Type LB2 Series

- DPDT • 8-pins
- Contact rating: 240VAC/30VDC @ 12A
- Mechanical life: 10,000,000 operations
- Electrical life: 100,000 operations min. at rated load

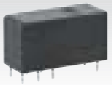
Part Number	Product Number	P & B Cross Reference	Coil Voltage	Pricing 1	Pricing 10
172718EX	SCL12DPDT	K10-11D15-12	12VDC	**$4.99**	**$4.49**

Rayex LB2 Socket

- DIN rail snap socket for LB2 relays



Part Number	Product Number	P & B Cross Reference	Pins	Pricing 1	Pricing 10
175530EX	PTF08AA	27E895	8	**$5.95**	**$5.39**



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Small High-Current PC Mount Relays

An inexpensive means of switching loads up to 30 amps. While these small, low-cost relays are designed primarily for the appliance industry and the heating, air conditioning and ventilation markets, they are also well suited for automotive load management and other applications.

- Meets UL class F insulation standard
- Mechanical life expectancy is 10 million operations
- Electrical life expectancy is 100,000 operations at rated loads
- Dielectric strength: 1500Vrms (between contact and coil)

144186EX: For use with universal relay card (P/N 128910EX, pg 88)

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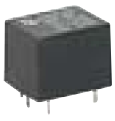


A

B

C

Fig. 1

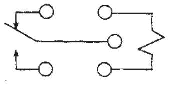


Fig. 2

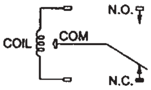
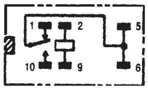


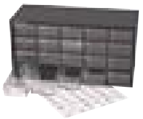
Fig. 3



Part No.	Mfr. Cross Ref. No.	Manufacturer	Potter & Brumfield Cross Reference	Fig.	Contact Form	Coil Voltage	Coil (Ohms)	Contact Voltage	Contact Current	Pins	L x W x H (in.)	Pricing 1	Pricing 10
187240EX	G5V-1-DC5	Omron	—	3C	SPDT	5VDC	166.7	125VAC/24VDC	.5A/1A	6	.50 x .30 x .40	**$2.05**	**$1.79**
172937EX	JS1-12V	Nais (Aromat)	T72M5D121-12	2B	SPDT	12VDC	400	125VAC/24VDC	10A/5A	5	.85 x .62 x .63	**1.09**	**.99**
144186EX	JZC-22F	Velleman	VR15M121C	1A	SPDT	12VDC	337	120VAC/28VDC	15A	5	.80 x .64 x .80	**3.79**	**3.39**

Component Grab Bags

- Use our 20-drawer cabinet with labels to store your components, P/N 81701EX, pg 45
- Opened grab bags are not returnable



Cabinet – 81701EX

Capacitors

135394EX

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10
135394EX	GB102LB*	1.5 lb. assorted (300 pcs) electrolytic caps. radial, axial, snap (photo above)	1.5	**$12.95**	**$11.49**
17945EX	GB103	100 assorted tantalum capacitors (dipped epoxy and solid tubular)	0.1	**9.95**	**8.95**

Integrated Circuits

135280EX

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10
135280EX	GB108LB*	1 lb. (400 pcs) asst. 7400, 74LS00 series (74, 74C, 74F, 74S, 74ALS, 74HC, 74HCT)	1.0	**$16.95**	**$14.95**
145242EX	GB109LB*	2 lb. (300 pcs) asst. linear series (LM300, 500, 700, 7800, 7900 reg.)	2.0	**16.95**	**14.95**

LEDs

18041EX

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10
18041EX	GB110	100 assorted sizes & colored LEDs (T1/T1¾ round and rectangular)	0.1	**$6.95**	**$6.29**
18323EX	GB186	500 asst. sizes #18041EX LEDs	0.3	**19.95**	**17.95**
135271EX	GB110LB*	1 lb. (1900 pcs) asst. #18041EX LEDs	1.0	**44.95**	**40.95**

1/4W Resistors

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10
135351EX	GB116LB*	1 lb. (2000 pcs) asst. 1/4W resistors	1.0	**$14.95**	**$13.49**

*LB grab bag quantities are approximate

Hardware Assortment

- 2-56 • 4-40 • 6-32 • 8-32 • Screws
- Nuts • Washers • Steel • Brass • Lock Washers • Aluminum • Plastic

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10
171635EX	GB149LB*	3 lbs. (1400 pcs) assorted types of screws	3.0	**$12.95**	**$11.49**

Schwab's School Selection

$57.89 Value

A selection of Jameco's nine most popular Grab Bags, all individually bagged. North Dakota Engineer, Loren Schwab, recommended this selection of products as a standard item. He also recommends a 20-drawer component cabinet with labels (81701EX photo above) for storage.

Includes: Ceramic and electrolytic capacitors, diodes, transistors, potentiometers, switches, LEDs, 1/4W resistors, spacers and standoffs.

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10
163213EX	GB197	Schwab's School Selection	3.3	**$39.95**	**$34.95**
81701EX	CAB20	20-drawer component cabinet	4.7	**15.95**	**13.95**

Surprise Component Grab Bag

Our Best Seller!

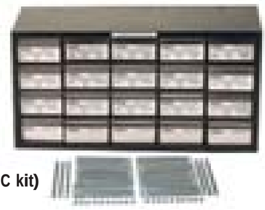
Axial and radial electrolytics, monolithic, dipped silver mica and mylar capacitors, connectors, sockets, thermistors, LEDs, resistor networks, diodes, ICs, standoffs, transistors, oscillator/resonators, inductors, crystals, resistors, pots and switches (1075 pcs).

Part No.	Cross Ref. No.	Description	1	10
135263EX	GB191LB*	3 lbs. electronic components	**$17.95**	**$15.95**

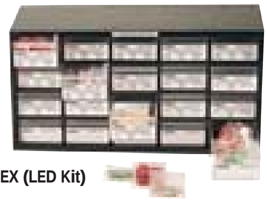
*LB grab bag quantities are approximate

Kits include the Most Popular Components and a Cabinet with extra drawers for your Customized Expansion

20-drawer component cabinet with every kit!



84970EX (IC kit)



84996EX (LED Kit)

81832EX (Resistor kit)

Need a refill? Just call 1•800•831•4242

Each Kit includes a 20-Drawer Component Cabinet (81701EX), 20 clear plastic drawers (85454EX), 20 clear dividers (85446EX), 30 adhesive labels for drawers to identify parts in kit, and all the Electronic Components listed in each kit.

- Cabinet size: 6.0"L x 15.0"W x 7.9"H
- Drawer size: 5.5"L x 2.7"W x 1.5"H
- Weight: 4.6–6.4 lbs.
- Cabinet: ABS-Black
- Cabinet is wall-mountable or free standing

Each Refill Package includes all Electronic Components listed in each kit; each type is separately packaged.

4000 Series CMOS IC Kit

SAVE $27

Includes 300 pcs. (25 types) CD4000 Series Integrated Circuits

10 each	10 each	10 each	10 each	20 each
CD4015	CD4024	CD4051	CD4093	CD4001
CD4016	CD4027	CD4069	CD4511	CD4011
CD4017	CD4040	CD4070	CD4538	CD4013
CD4020	CD4046	CD4071	CD4543	CD4049
CD4023	CD4050	CD4081	CD4584	CD4066

Part No.	Description	Wt. (lbs.)	1	10
84970EX	300 pcs. 4000 series CMOS IC kit	6.1	**$79.95**	**$71.95**
130403EX	Refill for 84970EX (300 pcs.)	1.4	**58.95**	**52.95**

7400 Series IC Kit

SAVE $73

Includes 350 pcs. (30 types) 7400 (TTL) Integrated Circuits

10 each	10 each	10 each	10 each	10 each	20 each
7402	7416	7438	74107	74157	7400
7405	7417	7447	74123	74160	7404
7408	7420	7470	74132	74174	7406
7410	7430	7485	74151	74175	7407
7414	7432	7495	74153	74279	7474

Part No.	Description	Wt. (lbs.)	1	10
84953EX	350 pcs. 7400 series IC kit	6.2	**$149.95**	**$134.95**

74LS Series IC Kit

SAVE $46

Includes 420 pcs. (35 types) 74LS (TTL) Integrated Circuits

10 each	10 each	10 each	10 each	20 each
74LS05	74LS73	74LS125	74LS193	74LS00
74LS10	74LS75	74LS139	74LS240	74LS02
74LS11	74LS85	74LS151	74LS244	74LS04
74LS14	74LS86	74LS155	74LS245	74LS08
74LS20	74LS90	74LS157	74LS273	74LS32
74LS30	74LS93	74LS174	74LS373	74LS74
74LS47	74LS123	74LS175	74LS374	74LS138

Part No.	Description	Wt. (lbs.)	1	10
84961EX	420 pcs. 74LS series IC kit	6.7	**$119.95**	**$107.95**
130391EX	Refill for 84961EX (420 pcs.)	2.0	**99.99**	**89.99**

Linear Series IC Kit

SAVE $52

Includes 480 pcs. (40 types) Linear Series Integrated Circuits

10 each	10 each	10 each	10 each	20 each
TL072CP	LM337T	LF412CN	ULN2803A	LM317T
TL074CN	LF353N	LMC555CN	NE5532	LM324N
TL082CP	LF356N	LM556N	7808T	LM339N
TL084CN	LM358N	LM723CN	78L12	LM741CN
MAX232CPE	LM386N-1	LM1458N	7815T	LM555CN
LM301N	LM386N-3	LM1488N	7905T	7805T
LM308N	LM393N	DS1489N	7912T	78L05
LM311N	LF411CN	ULN2003A	7915T	7812T

Part No.	Description	Wt. (lbs.)	1	10
84988EX	480 pcs. Linear IC kit	6.0	**$182.95**	**$164.65**
130411EX	Refill for 84988EX (480 pcs.)	1.3	**169.95**	**145.95**

Low Profile IC Socket Kit

SAVE $13

Includes 300 pcs. (10 types) Solder tail (Tin) IC Sockets

10 each	20 each	20 each	50 each	50 each
22LP	18LP	28LP	8LP	16LP
24SLP	24LP	40LP	14LP	20LP

Part No.	Description	Wt. (lbs.)	1	10
85075EX	300 pcs. LP IC Socket kit	5.5	**$36.95**	**$33.25**

1/8-Watt Carbon Film Resistor Kit

Includes 540 pcs. (30 values) 1/8-watt 5% Resistors

10 each	10 each	10 each	10 each	10 each	10 each	50 each	50 each
10Ω	330Ω	1.5kΩ	3.3kΩ	15kΩ	47kΩ	100Ω	4.7kΩ
47Ω	390Ω	2Ω	5.1kΩ	22kΩ	470kΩ	220Ω	10kΩ
150Ω	470Ω	2.2kΩ	5.6kΩ	27kΩ	1MΩ	1kΩ	100kΩ
270Ω	680Ω	2.7kΩ	6.8kΩ	33kΩ	10MΩ		

Part No.	Description	Wt. (lbs.)	1	10
108329EX	540 pcs. 1/8-watt Resistor kit	4.9	**$24.95**	**$22.49**
108302EX	Refill for 108329EX (540 pcs.)	0.2	**12.95**	**11.49**

1/4-Watt Carbon Film Resistor Kit

Includes 540 pcs. (30 values) 1/4-watt 5% Resistors

10 each	10 each	10 each	10 each	10 each	10 each	50 each	50 each
10Ω	330Ω	1.2kΩ	2.7kΩ	15kΩ	47kΩ	100Ω	4.7kΩ
47Ω	390Ω	1.5kΩ	3.3kΩ	20kΩ	470kΩ	220Ω	10kΩ
150Ω	470Ω	2kΩ	5.1kΩ	22kΩ	1MΩ	1kΩ	100kΩ
270Ω	680Ω	2.2kΩ	5.6kΩ	33kΩ	10MΩ		

Part No.	Description	Wt. (lbs.)	1	10
81832EX	540 pcs. 1/4-watt Resistor kit	4.9	**$27.95**	**$24.95**
103165EX	Refill for 81832EX (540 pcs.)	0.2	**12.95**	**11.49**

1/2-Watt Carbon Film Resistor Kit

Includes 540 pcs. (30 values) 1/2-watt 5% Resistors

10 each	10 each	10 each	10 each	10 each	10 each	50 each	50 each
10Ω	330Ω	1.5kΩ	3.3kΩ	15kΩ	47kΩ	100Ω	4.7kΩ
47Ω	390Ω	2kΩ	5.1kΩ	22kΩ	470kΩ	220Ω	10kΩ
150Ω	470Ω	2.2kΩ	5.6kΩ	27kΩ	1MΩ	1kΩ	100kΩ
270Ω	680Ω	2.7kΩ	6.8kΩ	33kΩ	10MΩ		

Part No.	Description	Wt. (lbs.)	1	10
107879EX	540 pcs. 1/2-watt Resistor kit	5.1	**$29.95**	**$26.95**
107852EX	Refill for 107879EX (540 pcs.)	0.4	**14.95**	**13.49**

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Kits include the Most Popular Components and a Cabinet with extra drawers for your Customized Expansion

81875EX (Capacitor Kit)

20-drawer component cabinet with every kit!

Each Kit includes a 20-Drawer Component Cabinet (81701EX), 20 clear plastic drawers (85454EX), 20 clear dividers (85446EX), 30 adhesive labels for drawers to identify parts in kit, and all the Electronic Components listed in each kit.

- Cabinet size: 6.0"L x 15.0"W x 7.9"H
- Drawer size: 5.5"L x 2.7"W x 1.5"H
- Cabinet is wall-mountable or free standing
- Cabinet: ABS-Black
- Weight: 4.6 to 6.4 lbs.

Each Refill Package includes all Electronic Components listed in each kit; each type is separately packaged.

Need a refill? Just call 1•800•831•4242

108433EX (Hardware Kit)

3/4-Watt 15 Turn Cermet Potentiometer Kit

SAVE $32

Includes 100 pcs. (10 values) 3/4-watt Linear Taper Potentiometer

10 each	10 each	10 each	10 each	10 each
43P500Ω	43P5kΩ	43P500kΩ	43P1kΩ	43P50kΩ
43P2kΩ	43P20kΩ	43P1MΩ	43P10kΩ	43P100kΩ

Part No.	Description	Wt. (lbs.)	1	10
85041EX	100 pcs. 15 turn Pot kit	4.9	**$82.95**	**$74.65**

Switch Assortment Kit

SAVE $52

Includes 150 pcs. (15 types) Pushbutton, Slide, Dip & Toggle Switches

10 each	10 each	10 each	10 each	10 each
206-4	JMT121	JMT223	MPC221	MS103
206-8	JMT123	MPC121	MPC223	SDTX620K
JMT113	JMT221	MPC123	MS102	SW153

Part No.	Description	Wt. (lbs.)	1	10
85059EX	150 pcs. Switch kit	5.0	**$98.95**	**$88.95**

Hardware and Spacer Assortment Kit

SAVE $55

Includes 2300 pcs. (23 types) Spacers, Nuts, Flat, Tooth & Lock Washers and Slotted PH Screws

100 each Spacers	100 each Hex nuts	100 each Flat	100 each Int. tooth	100 each Split lock	100 each PH machine screws
—	2-56	—	—	#2	2-56 x 1/4, —
4-40	4-40	#4	#4	#4	4-40 x 1/4, 1/2
6-32	6-32	#6	#6	#6	6-32 x 1/4, 1/2
8-32	8-32	#8	#8	#8	8-32 x 1/2, —

Part No.	Description	Wt. (lbs.)	1	10
108433EX	2300 pcs. Hardware kit	7.5	**$55.95**	**$50.36**
130497EX	Refill for 108433EX (2300 pcs.)	2.7	**39.95**	**35.95**

Ceramic Disc Capacitor Kit

SAVE $16

Includes 520 pcs. (10 values) 50V ±20% Ceramic Disc Capacitors

20 each	20 each	20 each	100 each	100 each
10pF	47pF	470pF	.022µF	.01µF
22pF	100pF	.001µF	.047µF	.1µF

Part No.	Description	Wt. (lbs.)	1	10
81859EX	520 pcs. Ceramic Capacitor kit	5.0	**$35.95**	**$32.35**
130232EX	Refill for 81859EX (520 pcs.)	0.3	**17.95**	**16.49**

Monolithic Ceramic Capacitor Kit

SAVE $10

Includes 280 pcs. (10 types) 50V ±20% Monolithic Ceramic Capacitors

10 each	10 each	10 each	10 each	100 each
22pF	.001µF	.047µF	.47µF	.01µF
100pF	.0022µF	.22µF	1µF	.1µF

Part No.	Description	Wt. (lbs.)	1	10
171475EX	280 pcs. Monolithic Capacitor kit	5.0	**$29.95**	**$26.95**
171483EX	Refill for 171475EX (280 pcs.)	0.3	**17.95**	**15.95**

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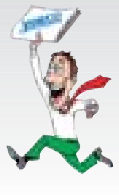


Radial Electrolytic Capacitor Kit

SAVE $11

Includes 240 pcs. (15 values) ±20% Radial Electrolytic Capacitors

10 each	10 each	20 each	20 each	20 each
100µF @ 50V	1000µF @ 16V	1µF @ 50V	3.3µF @ 50V	22µF @ 50V
220µF @ 25V	2200µF @ 25V	1µF @ 100V	4.7µF @ 50V	47µF @ 50V
470µF @ 25V	3300µF @ 25V	2.2µF @ 50V	10µF @ 50V	100µF @ 25V

Part No.	Description	Wt. (lbs.)	1	10
81867EX	240 pcs. Radial Capacitor kit	5.3	**$29.95**	**$26.95**
130331EX	Refill for 81867EX (240 pcs.)	0.5	**17.95**	**16.49**

Axial Electrolytic Capacitor Kit

SAVE $13

Includes 140 pcs. (10 values) ±20% Axial Electrolytic Capacitors

10 each	10 each	10 each	20 each	20 each
47µF @ 50V	220µF @ 50V	1000µF @ 25V	1µF @ 50V	10µF @ 50V
100µF @ 50V	470µF @ 50V	2200µF @ 16V	4.7µF @ 50V	2.2µF @ 50V

Part No.	Description	Wt. (lbs.)	1	10
81875EX	140 pcs. Axial Capacitor kit	5.3	**$37.95**	**$34.15**
130340EX	Refill for 81875EX (140 pcs.)	0.6	**24.95**	**22.49**

Mylar Capacitor Kit

SAVE $11

Includes 280 pcs. (10 values) 100V ±10% Mylar Capacitors

10 each	10 each	10 each	10 each	100 each
.001µF	.022µF	.047µF	.47µF	.01µF
.0047µF	.033µF	.22µF	1µF	.1µF

Part No.	Description	Wt. (lbs.)	1	10
81883EX	280 pcs. Mylar Capacitor kit	5.1	**$37.95**	**$34.15**
130358EX	Refill for 81883EX (280 pcs.)	0.3	**19.95**	**17.95**

Dipped Tantalum Capacitor Kit

SAVE $40

Includes 150 pcs. (15 values) ±20% Dipped Tantalum Capacitors

10 each	10 each	10 each	10 each	10 each
.1µF @ 35V	1µF @ 25V	3.3µF @ 35V	10µF @ 16V	22µF @ 16V
.22µF @ 35V	1µF @ 35V	4.7µF @ 35V	10µF @ 35V	33µF @ 25V
.47µF @ 35V	2.2µF @ 16V	6.8µF @ 35V	15µF @ 25V	47µF @ 25V

Part No.	Description	Wt. (lbs.)	1	10
81841EX	150 pcs. Tantalum Capacitor kit	4.8	**$79.95**	**$71.95**
130260EX	Refill for 81841EX (150 pcs.)	0.3	**59.95**	**53.95**

Transistor Assortment Kit

SAVE $7

Includes 560 pcs. (20 types) NPN, PNP (High/Medium/Low Power) Transistors

10 each	10 each	10 each	10 each	100 each
2N2222A	2N4401	MJE3055T	TIP31A	2N3904
2N2907A	2N4403	MPF102	TIP32A	2N3906
2N3053	2N5951	MPSA06	TIP102	PN2222
2N3055	2N7000	MPSA13	TIP120	PN2907

Part No.	Description	Wt. (lbs.)	1	10
82595EX	560 pcs. Transistor kit	5.1	**$82.95**	**$74.65**
130374EX	Refill for 82595EX (560 pcs.)	0.4	**69.95**	**62.95**

Diode Assortment Kit

SAVE $3

Includes 420 pcs. (15 types) Zener, Switching and Silicon Rectifiers

10 each	10 each	10 each	10 each	100 each
1N270	1N4001	1N4735	1N5408	1N914
1N751	1N4007	1N4742	C106B1	1N4004
1N3600	1N4733	1N5404	KBP04M	1N4148

Part No.	Description	Wt. (lbs.)	1	10
82587EX	420 pcs. Diode kit	5.0	**$39.95**	**$35.95**
130366EX	Refill for 82587EX (420 pcs.)	0.3	**25.95**	**21.95**

Terminal Blocks

- For detailed specifications, please see our website at www.Jameco.com

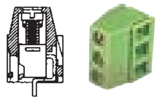


Fig. 1 (99397EX)

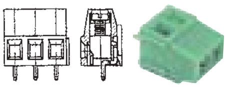


Fig.2 (160784EX)

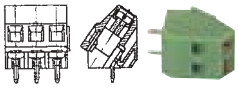


Fig. 3 (161066EX)

Part No.	Mfg.	Product No.	Fig.	Term.	Terminal Spacing	1	10
99426EX	Dinkle	DT128/2	1	2	.197"/5mm	**$.72**	**$.55**
99397EX	Dinkle	DT128V3P	1	3	.197"/5mm	**.99**	**.89**
160784EX	Dinkle	EK500V-02P	2	2	.197"/5mm	**.65**	**.55**
161066EX	Dinkle	EK500A-02P	3	2	.197"/5mm	**.75**	**.65**
189675EX	OST	EDC500/2DS	4	2	.197"/5mm	**.79**	**.71**
189667EX	OST	EDC500/3DS	4	3	.197"/5mm	**.89**	**.80**
152346EX	OST	EDC120/2DS	8	2	.200"/5.08mm	**.65**	**.55**
152354EX	OST	EDC120/3DS	8	3	.200"/5.08mm	**.47**	**.44**

Fig. 4 (189675EX)

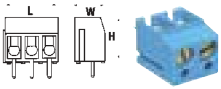


Fig. 5 (152346EX)

0.098"-Pitch AT Power Connectors for Motherboards & Power Supplies

- Voltage rating: 250V AC/DC
- Current rating: 7A AC/DC
- Temperature range: -25˚C to 85˚C
- Insulation resistance: 1000MΩ min.
- Withstanding voltage: 1500V/min.

78300EX: AMP60G male 6-pin PCB mount connector
- Material of post: tin-plated brass • Diameter of post: .09"

78326EX: AMP50G female 6-pin housing connector • Material: nylon

78318EX: AMP501T terminal pin • Material: tin-plated brass

78300EX

78318EX

78326EX

✻ Prepackaged: order in increments of 10

Part No.	Description	L	W	H	Dia	Use With	1	10
78300EX	6-pin male connector	.93"	.37"	.57"	—	—	**$.45**	**$.39**
78326EX	6-pin housing connector	.94"	.25"	.74"	—	78300EX	**.35**	**.31**
78318EX	Power terminal pin, female	.69"	—	—	.09"	78326EX	✻	**.11**

0.118"-Pitch ATX Power Connectors for Motherboards & Power Supplies

147379EX

147387EX

- Voltage rating: 250V AC/DC
- Temperature range: -25˚C to 85˚C • Current rating: 7A AC/DC
- Insulation resistance: 1000MΩ min. • Withstanding voltage: 1500V/min.

147379EX: ATX male 20-pin edge mount connector
- Material: nylon 66, UL-94VO • Material of post: tin-plated brass • Diameter of post: .045"

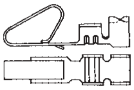
147387EX: Housing Connector • Material: nylon 66, UL-94VO

147395EX: ATX power terminal pins • Material: tin-plated brass

✻ Prepackaged: order in increments of 10

Part No.	Description	L	W	H	Dia	Use With	1	10
147379EX	20-pin male connector	1.7"	0.4"	0.6"	—	—	**$.59**	**$.53**
147387EX	20-pin housing connector	1.7"	0.4"	0.8"	—	147395EX	✻	**.19**
147395EX	Power terminal pin, female	.59"	—	—	.068"	147387EX	✻	**.12**

.156" (3.9mm) Center Crimp Pin

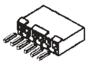


- Use with .156" housings (below)
- Material: brass/tin plated
- **Prepackaged: order in increments of 10 or 100**

Part No.	Mfr. Cross Ref.	Pin Wire Gauge	10	100
78318EX	JS-5001-T	18-24 AWG	**$.11**	**$.08**

.156" (3.9mm) Center Housing Connectors

104731EX



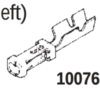
- Common to many power supplies carried by Jameco. Some power supplies (pgs 31-34) may require multiple connectors
- Housing material: nylon 66, UL94V-2
- Use with crimp pins, 78318EX, above

✻ **Prepackaged: order in increments of 10**

Part No.	Mfr. Cross Ref. No.	Pins	1	10
104715EX	LCH4	4	✻	**$.22**
104731EX	LCH6	6	**.33**	**.30**

.100" Non-Polarized Connector Housings & Crimp Pins

100802EX

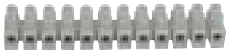

100765EX

- Mates with .025" square post on pattern of .100" centers (male headers, see left)
- Current rating: 1A
- Pin material: brass/tin plated
- Pin wire gauge: 22-26 AWG
- Plastic • Temperature rating: -55°C to +105°C
- **Prepackaged: order in increments of 10 or 100**

Single Row & Double Row

Part No.	Mfr. Cross Ref. No.	Contacts	10	100
100811EX	SCH2	2	**$.23**	**$.21**
157382EX	SCH3	3	**.24**	**.22**
100802EX	SCH4	4	**.25**	**.23**
163686EX	SCH5	5	**.27**	**.25**
103211EX	SCH6	6	**.31**	**.27**
103202EX	SCH8	8	**.35**	**.29**
157420EX	DCH10 (double row)	10	**.69**	**.62**
103229EX	DCH20 (double row)	20	**.99**	**.89**
100765EX	FCH1	Female pin ...	**.11**	**.09**
145357EX	MCH1	Male pin	**.15**	**.135**

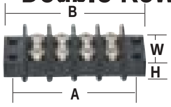
European Terminal Blocks


215010EX

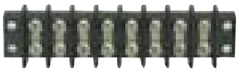
- Number of poles: 12
- 1.2mm raised base
- Working temperature: 230˚F (110˚C)
- Material: Polyamide 66 (nylon 66), UL94V2, natural • Voltage: 600V
- Terminal insert: brass metal alloy, nickel plated
- Wire protector: stainless steel spring
- Screws: zinc plated, yellow chromed

Part No.	Prod. No.	Amps	AWG	1	10
215010EX	PA8H	20A	12-22	**$1.79**	**$1.59**
215028EX	PA10H	30A	10-22	**1.89**	**1.69**
215036EX	PA12H	35A	10-22	**2.59**	**2.29**

KULKA® 601 GP Series Double Row Terminal Blocks



188699EX


188672EX

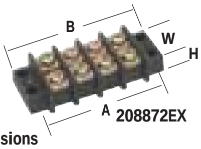
- Base: general purpose phenolic; 150˚C
- Screws: #6-32, binder head, phillips-slot
- Terminals: brass plated • Width (W): 1.12"
- .437" (11 mm) centers • Height (H): .50"
- 1100Vrms; 20A ratings; for 14-16 AWG wires
- Open block design • UL/CSA/CE approved

Part Number	Product Number	Poles	Dimensions A"	B"	1	10
188699EX	601GP4	4	2.19	2.50	**$1.69**	**$1.49**
188672EX	601GP8	8	3.94	4.25	**2.95**	**2.75**
188701EX	601GP12	12	5.69	6.00	**5.49**	**4.95**

Metric Double Row Terminal Blocks

- For detailed specs, please see www.Jameco.com

10A @ 600V

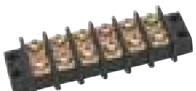


208872EX

- Screw size: M3.0
- Width (W): 19.5mm
- Height (H): 11.9mm

Part Number	Product Number	Poles	Dimensions A	B	1	10
208856EX	GGE-10-4P	4	47.5	55	**$.99**	**$.89**
208872EX	GGE-10-8P	8	95	102.5	**1.69**	**1.59**
208881EX	GGE-10-12P	12	123.5	131	**2.79**	**2.49**

20A @ 600V

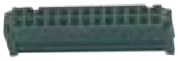

207571EX

- Screw size: M3.5
- (W): 22.0mm • (H): 13.2mm

Part Number	Product Number	Poles	Dimensions A	B	1	10
207538EX	GGE-20-4P	4	54.5	63.5	**$1.39**	**$1.25**
207554EX	GGE-20-8P	8	98.1	107.1	**2.59**	**2.35**
207571EX	GGE-20-12P	12	141.7	150.7	**3.59**	**3.19**

.100" IDC Socket Connectors

Double row polarized


32563EX

- Mates with 2 rows of .025" Sq. or Dia. posts on patterns of .100" centers
- Industry standard IDC socket (plastic)
- Temp. rating: -55°C to +105°C • Current rating: 1A
- Use P/N 73251EX, pg 53: insulation displacement connection crimper for these connectors

Part No.	Mfr. Cross Ref. No.	Contacts	1	10
32491EX	S10	10	**$.29**	**$.25**
119466EX	S16	16	**.35**	**.29**
32563EX	S26	26	**.45**	**.35**
32643EX	S34	34	**.49**	**.39**
32678EX	S40	40	**.55**	**.45**
32707EX	S50	50	**.65**	**.55**

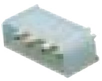
0.2"-Pitch Power Connectors & Pins

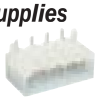
Connector & Housing Specifications:
- Voltage rating: 250VAC (Mate-N-Lock 600VAC)
- Operating temperature: -55°C to +105°C

Crimp Pin Specifications:
- Material: tin plated brass • Current rating: 1.5 amps
- Wire size range : 18-24 AWG • Use tool P/N 99442EX, pg 53

For 5.25" Disk Drives and Power Supplies

42075EX & 42067EX
Connector Housings:
- Keyed mating connectors
- External key bar indicates pin 1


109145EX


117567EX

42729EX
(Male for 42075EX)

42649EX
(Fem. for 42067EX)

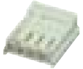
42075EX (M)

42067EX (F)

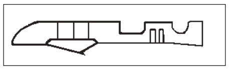
- See web for extraction tools, P/N 131887EX & 131879EX
- **Prepackaged: order in increments of 10 or 100**

Part No.	Description	10	100
109145EX	4-pin M vert. PCB mtg	$.59	$.48
117567EX	4-pin M PCB mount, horiz. edge mount	.63	.57
42075EX	4-pin M housing	.12	.11
42067EX	4-pin F housing	.20	.15
42729EX	M crimp pin for 42075EX	.10	.07
42649EX	F crimp pin for 42067EX	.10	.07

For 3.5" Disk Drives and Power Supplies


114930EX

114999EX


114921EX

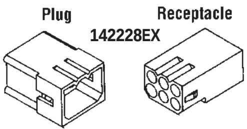
- **Prepackaged: order in increments of 10 or 100**

Part No.	Description	10	100
114930EX	4-pin F housing	$.19	$.17
114921EX	F crimp pin for 114930EX	.11	.095

Part No.	Description	1	100
114999EX	4-pin M rt. angle PCB mtg.	$.35	$.31

.093" Power Connector Kits

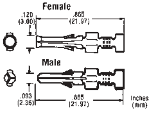
These assortment kits contain mating sets of housings and pins.



- Volt.: 250VAC
- Temperature. range: -40˚C to +105˚C

142181EX: • 3 ea. 2-pin plugs & receptacles, 8 ea. female & male contacts
142201EX: • 2 ea. 4-pin plugs & receptacles,10 ea. F & M contacts
142228EX: • 2 ea. 6-pin plugs & receptacles, 14 ea. female and male contacts

Standard Crimp Contacts

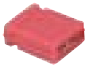


Includes: Female & male tin-plated standard brass .010" pins; 18-22 AWG crimp size wire

Part No.	Product No.	Current	1	10
142181EX	1545	12 Amps	$4.95	$4.49
142201EX	1490	9 Amps	5.69	5.15
142228EX	1261	9 Amps	5.25	4.75

.100" and 2mm Shorting Blocks

- Mates to .025" square posts on .100" centers
- Shorting socket jumper to address or code strip line plugs
- Mate with male headers
- Pin material: phosphor bronze
- **Prepackaged: order in increments of 10 or 100**


Closed

Open

Open: open on top to allow for a test point
Closed: closed – functionally they are the same

Part No.	Description	Color	10	100
22023EX	Top open	Black	$.12	$.09
19140EX	Top closed	Black	.12	.09
112441EX	Top closed	Blue	.12	.09

.100" Straight Male Headers (Gold)

109567EX

139563EX

109575EX

103270EX

- Snap apart to fit your application
- Contact area: gold
- Contact material: phosphor bronze
- Current rating: 1 amp • Insulation: glass filled polyester
- Temp. range: -55°C to +120°C
- Solder to PC boards for instant plug-in access
- .025" square posts on a .100" x .100" matrix
- Use w/ crimp connector housing, pg 39

✳Prepackaged: order in increments of 10

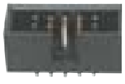
Single Row

Part No.	Mfr. Cross Ref. No.	Contacts	1	10
108337EX	SMH02	2	✳	$.16
109575EX	SMH03	3	✳	.17
117559EX	SMH04	4	✳	.17
153699EX	SMH06	6	✳	.17
153701EX	SMH08	8	✳	.20
103392EX	SMH10	10	✳	.18
103376EX	SMH17	17	✳	.16
103368EX	SMH20	20	✳	.25
202825EX	SMH22	22	✳	.25
103350EX	SMH25	25	✳	.25
103341EX	SMH30	30	.35	.31
160881EX	SMH40	40	.49	.44

Double Row

Part No.	Mfr. Cross Ref. No.	Contacts	1	10
115027EX	923804DS	4	✳	$.10
115035EX	923806DS	6	✳	.18
109516EX	923808DS	8	✳	.18
67820EX	923810DS	10	✳	.18
109567EX	923816DS	16	.55	.49
203844EX	923824DS	24	.70	.65
53495EX	923863DS	26	.70	.55
53532EX	923865DS	40	.65	.55
53559EX	923866DS	50	.60	.55
103405EX	923872DS	72	.85	.75
117196EX	923880DS	80	.90	.80

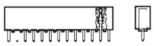
.100" Low-Profile Straight Male Shrouded Headers


67811EX

- Features: UL recognized, CSA certified; .025" square post mates with sockets on .100" x .100" grid
- Contact: phosphor bronze, gold plated
- Material: glass filled polyester, gray, UL94V-0
- Use with IDC socket connectors, pg 39

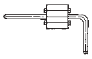
Part No.	Description	1	10
67811EX	10-pin male shrouded header	$.39	$.35
68179EX	16-pin male shrouded header	.44	.40
68371EX	26-pin male shrouded header	.54	.42
181104EX	40-pin male shrouded header	.75	.60

.100" (2.5mm) Female Header Receptacles



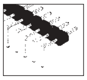
- Gold plated contacts • 0.1" contact center
- Top entry • Vertical mount

Part No.	Contacts	Type	1	10
70754EX	8	Single row	$.59	$.53
200782EX	12	Single row	.79	.59
70720EX	16	Double row	.89	.79
70826EX	20	Double row	.99	.89
163862EX	34	Double row	1.19	1.05
111704EX	40	Double (Tin)	1.29	1.15

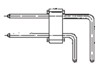


.100" Right Angle Male Headers

Single Row

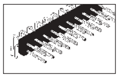


Part No.	Mfr. Cross Ref. No.	Contacts	1	10
153728EX	RMH08	8	$.45	$.40
103270EX	RMH36	36	.75	.64



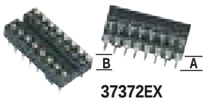
.100" Right Angle Male Headers

Double Row

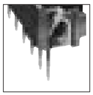


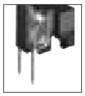
Part No.	Mfr. Cross Ref. No.	Contacts	1	10
203916EX	923806DR	6	$.55	$.49
203932EX	923810DR	10	.59	.53
53575EX	923820DR	20	.59	.53
53604EX	923840DR	40	.85	.75
53612EX	923850DR	50	.85	.75
103413EX	923872DR	72	1.15	.99
139563EX	923880DR	80	1.35	1.19

Solder Tail Low Profile Sockets



37372EX


single wipe


dual wipe

- Contact current: 1A
- Material: beryllium copperor phosphor bronze
- Tin-plated contacts and tails
- Contact resistance: less than 5mΩ
- Dielectric withstanding voltage: 300Vrms
- Insulation resistance: greater than 1000MΩ
- Insulator: glass-filled polyester or glass-filled polyphenylene sulfide
- Sleeve material: brass
- Thru-hole lead length: .140" (A)
- Body height: .188" (B)

Single Wipe

- **Prepackaged: order in increments of 10 or 100**

Part No.	Mfr. Cross Ref. No.	Pins	Width (in.)	10	100
51570EX	8LP	8	0.3	$.07	$.06
37161EX	14LP	14	0.3	.09	.07
37372EX	16LP	16	0.3	.10	.09
38113EX	18LP	18	0.3	.11	.094
41110EX	40LP	40	0.6	.19	.17

Dual Wipe

- **Prepackaged: order in increments of 10 or 100**

Part No.	Mfr. Cross Ref. No.	Pins	Width (in.)	10	100
112205EX	8LPD	8	0.3	$.09	$.08
112213EX	14LPD	14	0.3	.10	.075
112221EX	16LPD	16	0.3	.13	.115
112230EX	18LPD	18	0.3	.16	.14
112248EX	20LPD	20	0.3	.17	.14
112264EX	24LPD	24	0.6	.19	.16
112299EX	28SLPD	28	0.3	.21	.19
112272EX	28LPD	28	0.6	.21	.15
112301EX	32LPD	32	0.6	.18	.14

Machine Tooled Solder Tail Low Profile Sockets

65584EX

- Contact plating: gold
- Tin-plated leads
- Contact current: 3A
- Multiple contact elements
- Material: beryllium copper or phosphor bronze
- Contact resistance: less than 5mΩ
- Dielectric withstanding voltage: 300Vrms
- Insulation resistance: greater than 1000MΩ
- Insulator: glass-filled polyester or glass-filled polyphenylene sulfide • Sleeve material: brass
- Thru-hole lead length: .177" (A) • Body height: .117" (B)

Part No.	Mfr. Cross Ref. No.	Pins	Width (in.)	1	10
51625EX	8MLP	8	0.3	$.25	$.22
37196EX	14MLP	14	0.3	.42	.38
37401EX	16MLP	16	0.3	.47	.43
65584EX	18MLP	18	0.3	.55	.49
38623EX	20MLP	20	0.3	.59	.55
39351EX	24MLP	24	0.6	.72	.65
114411EX	28SMLP	28	0.3	.85	.75
40328EX	28MLP	28	0.6	.83	.75
105380EX	32MLP	32	0.6	.95	.85
41136EX	40MLP	40	0.6	1.19	1.05
42059EX	48MLP	48	0.6	1.29	1.18
200707EX	64MLP	64	0.9	1.35	1.25

Machine Contact Single-In-Line Female Sockets

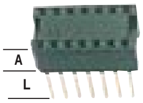
- Machine tooled
- Solder tail and wire wrap

78641EX

Part No.	Description	1	10
102200EX	Single x 10-pin	$.25	$.22
78641EX	Single x 30-pin	.89	.80
175919EX	Single x 36-pin	1.19	1.09
104053EX	Single x 30-pin WW3*	1.95	1.75

* Lead length: .575" (3)

Level 2 & 3 Wire Wrap Sockets



37233EX

- Contact plating/leads: gold (WW) or tin (TWW); Dual Wipe
- Material: beryllium copper or phosphor bronze
- Contact current: 1A
- Contact resistance: less than 5mΩ
- Dielectric withstanding voltage: 300Vrms
- Insulation resistance: greater than 1000MΩ
- Insulator: glass-filled polyester or glass-filled polyphenylene sulfide • Sleeve material: brass
- Thru-hole lead length: .438" (L2); .638" (L3)
- Body height: .300" (A)

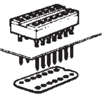
Gold (WW)

Part No.	Mfr. Cross Ref. No.	Pins	Width (in.)	1	10
37479EX	16WW2	16	0.3	$1.75	$1.59
38674EX	20WW2	20	0.3	2.25	1.99
37233EX	28WW2	28	0.6	1.49	1.35
40352EX	28WW2	28	0.6	2.19	1.99
41187EX	40WW2	40	0.6	3.15	2.80

Tin (TWW)

Part No.	Mfr. Cross Ref. No.	Pins	Width (in.)	1	10
196841EX	14TWW3	14	0.3	$.91	$.82
37217EX	14TWW2	14	0.3	1.15	1.03
37436EX	16TWW2	16	0.3	.99	.89
75379EX	20TWW2	20	0.3	1.69	1.52
75424EX	28TWW2	28	0.6	1.89	1.63
41179EX	40TWW2	40	0.6	2.49	2.15

Wire Wrap Socket I.D. Markers



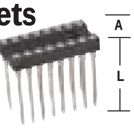
- Plastic
- Quick identification of pin numbers
- Slips onto socket before wrapping
- Can easily write location, part number or function

37145EX

Part No.	Prod. No.	Pins	Width (in.)	1	10
37145EX	14ID	14	0.3	$.35	$.31
40299EX	28ID	28	0.6	.65	.55

Level 3 Machine Tooled Wire Wrap Sockets

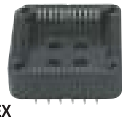
37410EX



- Contact plating: gold
- Tin-plated leads
- Contact current: 3A
- Contact resistance: less than 5mΩ
- Dielectric withstanding voltage: 300Vrms
- Material: beryllium copper or phosphor bronze
- Insulation resistance: greater than 1000MΩ
- Sleeve material: brass • Body height: .115" (A)
- Thru-hole lead length: .515" (L3)
- Insulator: glass-filled polyester or glass-filled polyphenylene sulfide

Part No.	Mfr. Cross Ref. No.	Pins	Width (in.)	1	10
94473EX	8MSWW3	8	0.3	$.53	$.46
62050EX	14MSWW3	14	0.3	.93	.80
37410EX	16MSWW3	16	0.3	1.09	.93
38631EX	20MSWW3	20	0.3	1.33	1.14
94490EX	24MSWW3	24	0.6	1.60	1.38
40336EX	28MSWW3	28	0.6	1.69	1.43
94502EX	40MSWW3	40	0.6	2.66	2.28

PLCC Solder Tail Sockets



71618EX

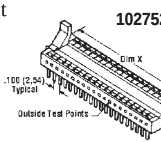
- Solder tail allows through-hole board patterns in .100" grid
- Accepts JEDEC type "A" plastic leaded chip (0.05" centers)
- Thru-hole lead length: .125" • Body height: .375"

Part No.	Mfr. Cross Ref. No.	Pins	1	10
71811EX	G1P432	32	$.55	$.48
71618EX	G1P444	44	1.15	.99
71968EX	G1P468	68	1.15	.99

Low Profile ZIF Sockets

A low cost solution for ZIF test socket requirements. It has a height of only .319" (8.10mm), and even with the handle in open position measures just .554" (14.07mm).

102752EX

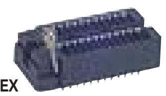


- Strong rigid cast metal cam provides uniform action over entire contact area

Part No.	Aries No.	Pins	Dim X	1	10
102744EX	28-526	28	1.64"	$5.49	$4.99
102752EX	40-526	40	2.24"	6.95	6.39

Universal ZIF Sockets

- Solder directly to PCB or plug directly into IC socket
- Screw mounting holes for reliable operation
- Accepts .300" to .600" IC centers x .1" spacing



103991EX

Part No.	Aries No.	Pins	1	10
103991EX	24-6554-10	24	$7.49	$6.79
104002EX	28-6554-10	28	8.45	7.39
104011EX	32-6554-10	32	9.95	8.49
104029EX	40-6554-10	40	11.25	9.80

D-Subminiature Connector Hoods

15085EX

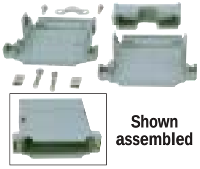
- Use with D-sub solder cup and housing style connectors

D Series: plastic hood with strain relief (gray)
MD Series: metal coated plastic hood w/ strain relief
MH Series: die-cast metal hood with strain relief
Includes: Hardware

Part No.	Mfr. Cross Ref. No.	Conn.	1	10
15721EX	DB9H	9-pin	$.49	$.45
25620EX	MDB9H	9-pin	.59	.49
147740EX	MDB9H	9-pin	1.45	1.29
15018EX	DA15H	15-pin	.49	.45
25566EX	MDA15H	15-pin	.56	.44
15085EX	DB25H	25-pin	.45	.39
25603EX	MDB25H	25-pin	.59	.49
15106EX	MDB25H	25-pin	1.39	1.19
15456EX	DC37H	37-pin	.59	.55
25611EX	MDC37H	37-pin	.75	.69

25-Pin Dual Plastic Hood

Designed for custom applications requiring two D-sub connectors. Applications include custom jumper boxes and interconnects.



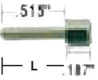
Shown assembled

Part No.	Description	1	10
34091EX	25-pin, plastic dual	$.95	$.85

4-40 Mounting Screw Hardware for D-Subminiature Connectors

4-40 x .187" Jack Screws

108986EX



✳ **Prepackaged: order in increments of 10 or 100**

Part No.	Description	1	10
172603EX	.315"L jack screw	✳	$.14
102816EX	.435"L jack screw	.49	.46
108986EX	.515"L jack screw	.55	.50

4-40 Screw Sets

102808EX

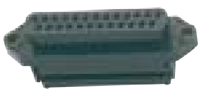
102808EX: 4-40 screw (.30"L) and retainer set

16547EX: 4-40 x .187" jack screw (.31"L thread), washer, lock washer and nut set

- **Prepackaged: order in increments of 10 or 100**

Part No.	Description	10	100
102808EX	Screw/retainer set	$.35	$.30
16547EX	Screw/nut set	.31	.25

IDC Ribbon Cable Connectors



12431EX

- Current rating: 1 amp
- Temp range: -55°C to +120°C
- Insulation material: glass-filled polyester
- Contact material: phosphor bronze
- Terminates with standard D-type connectors

Part No.	Mfr. Cross Ref. No.	Cont.	Gen.	Shell	1	10
109225EX	MDB9P†	9	M	metal	$1.35	$1.25
12503EX	CDB9P	9	M	plastic	2.49	1.79
109217EX	MDB9S†	9	F	metal	1.49	1.19
12520EX	CDB9S	9	F	plastic	2.59	2.35
115983EX	MDB25P	25	M	metal	1.85	1.69
12335EX	CDB25P	25	M	plastic	1.89	1.69
115975EX	MDB25S	25	F	metal	1.85	1.65
12431EX	CDB25S	25	F	plastic	1.95	1.79

† **109225EX/109217EX**: require flat cable with .0625" centers

D-Subminiature Connectors

Solder-Cup Connectors

15114EX Front

15114EX Back

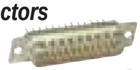
- Compatible with 24 AWG communications and 22 AWG solid cable, pg 43
- Shell: tin plated metal

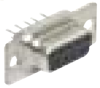
Part No.	Contacts	Gender	1	10
15747EX	9	M	$.56	$.44
15771EX	9	F	.59	.49
15077EX	15HD*	M	.69	.59
164822EX	15HD*	F	.79	.69
15034EX	15	M	.55	.49
15051EX	15	F	.59	.49
15114EX	25	M	.99	.89
15157EX	25	F	.89	.80
15472EX	37	M	.99	.85
15499EX	37	F	1.19	1.05

*High Density

Straight PC Mount Connectors

- Non-removable contacts
- 125 Vrms
- Current rating: 5 amps
- Operating temp.: -65°F to +250°F
- Shell: tin plated metal


15122EX

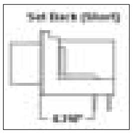

15780EX

Part No.	Mfr. Cross Ref. No.	Contacts	Gender	1	10
111691EX	DB9PPCB	9	M	$.55	$.45
15780EX	DB9SPCB	9	F	.55	.45
176760EX	DA15PPCB	15	M	.49	.39
176751EX	DA15SPCB	15	F	.49	.44
15122EX	DB25PPCB	25	M	.65	.59
15165EX	DB25SPCB	25	F	.74	.55
180021EX	DC37SPCB	37	F	.85	.72

D-Subminiature Connectors

Right Angle PC Mount Connectors

0.318" Set Back



- Short style
- Lead length: .138"
- Lead spacing: .115"
- Shell: tin plated metal
- Current rating: 1A

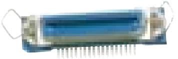
15149EX

SALE

Part No.	Mfr. Cross Ref. No.	Cont.	Gender	1	10
104942EX	DB9P318	9	M	$.55	$.50
104951EX	DB9S318	9	F	.60	.55
71124EX	DA15P318	15	M	.69	.59
77956EX	DA15S318	15	F	.79	.69
168743EX	HDDB15S318*	15	M	.49	.42
71466EX	HDDB15S318*	15	F	.59	.53
15149EX	DB25P318	25	M	.79	.65
15181EX	DB25S318	25	F	.89	.79
71706EX	DC37P318	37	M	.99	.89
78182EX	DC37S318	37	F	1.15	.95

*High Density

PCB Right Angle Centronics Connectors


72151EX

72080EX

- Solder-type contacts
- Space between rows: .164"
- Space between pins: 0.1"
- Metal body
- PC mount

Part No.	Description	1	10
72151EX	36-contact female	$3.55	$3.19
72080EX	50-contact female	4.95	4.21

Find more @ www.Jameco.com

DIN Female Sockets

- Metal body
- Panel mount with solder lugs

15851EX

Part No.	Mfr. Cross Ref. No.	# of pins	1	10
15843EX	DINJ5	5	$1.29	$1.15
15851EX	DINJ6	6	1.39	1.25
15860EX	DINJ8	8	1.49	1.35

DIN and Mini DIN Plugs and Receptacles

177236EX

15886EX

- Solder barrels including strain relief
- See page 42 for cable

Part No.	Pins	Type	1	10
142261EX	6	Mini plug	$.89	$.77
111878EX	8	Mini plug	.99	.89
177236EX	8	Mini receptacle	1.09	.93
15878EX	5	DIN plug	.52	.47
15886EX	6	DIN plug	.59	.50
15894EX	8	DIN plug	.65	.56

Right Angle DIN Female Sockets

- Set back: 0.5"
- PC mount contacts

140791EX/119474EX: Plastic/metal body
29399EX: Plastic body

SALE

29399EX

Part No.	Mfr. CrossRef. No.	# of pins	1	10
140791EX	MDR4S	4 (mini)	$.69	$.59
119474EX	MDR6S	6 (mini)	.75	.68
207722EX	MDS8100	8 (mini)	.99	.89
29399EX	RD5	5	.59	.53

Cable

Gray Flat Ribbon Cable – 28 AWG

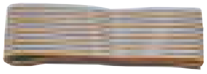
103481EX

- Single edge red stripe for pin 1 orientation
- Insulation: polyvinyl chloride (PVC) • 28 AWG (7 x 36) • Center spacing: 0.05"
- Voltage rating: 300V • Stranded copper wire • Temp. rating: -20°C to +80°C
- **Prepackaged and priced in increments of 10' or 25'**

Part No.	Cross Ref. No.	Conductors	10 ft.	25 ft.
135538EX	171-10	10	$1.49	$3.20
37671EX	171-16	16	2.20	5.00
37719EX	171-20	20	4.00	6.25
37760EX	171-25	25	3.90	8.75
37807EX	171-26	26	3.49	8.00
37840EX	171-34	34	4.25	9.25
37911EX	171-37	37	5.90	11.75
37920EX	171-40	40	7.40	17.50
37954EX	171-50	50	6.75	14.50
103481EX	171-60	60	8.95	19.75

Multicolor Flat Ribbon Cable – 28 AWG

- Standard 10-color repeat sequence • 28 AWG (7 x 36)
- Center spacing: 0.05" • Voltage rating: 300V
- Temp. rating: -20°C to +80°C • Stranded copper wire
- **Prepackaged and priced in increments of 10' or 25'**


105718EX

Part No.	Cross Ref. No.	Conductors	10 ft.	25 ft.
112547EX	28RC10	10	$1.95	$4.50
105671EX	28RC16	16	3.25	7.25
105689EX	28RC20	20	3.95	9.00
105697EX	28RC25	25	6.29	14.25
105700EX	28RC34	34	6.50	13.00
105726EX	28RC40	40	8.69	19.55
105718EX	28RC50	50	10.95	24.95

Category 5 Network Cable

118130EX

- Insulation: polyethylene • Nom. OD.: 0.189" • UTP
- Nom. impedance: 100Ω • 8C • 4 twisted pairs

Solid: uses modular plug P/N 119343EX, pg 78
Stranded: uses modular plug P/N 79281EX, pg 78

- **Prepackaged and priced in increments of 25' or 100'**

See pages 79-83 for our Selection of Networking Products

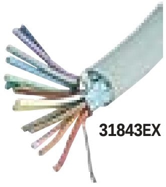
24 AWG UTP Category 5 Enhanced – 350MHz

Part No.	Description	25 ft.	100 ft.
176225EX	Solid (gray)	$5.00	$17.00
201603EX	Stranded (blue)	5.00	14.00
176233EX	Stranded (gray)	6.00	21.00
201574EX	Stranded (red)	6.00	18.00
201582EX	Stranded (blue)	6.00	18.00

24 AWG UTP Category 5 – 100MHz

Part No.	Description	25 ft.	100 ft.
118130EX	Stranded (gray) (7/32 AWG)	$5.95	$19.35
201646EX	Stranded (gray) (7/32 AWG)	5.50	15.00

Multiconductor Shielded Computer Communication Cable – 24 AWG


31843EX

- Stranded copper wire, multi-colored insulation
- Insulated with polyvinyl chloride (PVC)
- Voltage rating: 300V • Color: gray • Drain wire
- 24 AWG (7 x 32 AWG) • Shielded 100% w/ aluminum mylar
- **Prepackaged and priced in increments of 25' or 100'**

Part No.	Cross Ref. No.	Conductors	Diameter	25 ft.	100 ft.
31860EX	SC4	4	0.20"	$4.75	$17.00
31878EX	SC9	9	0.23"	11.25	35.00
31843EX	SC15	15	0.28"	14.75	49.00
31851EX	SC25	25	0.37"	22.25	71.00

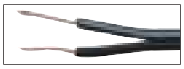
Modular Telephone Cable – 28 AWG

103430EX

- Color coded conductors • Flat modular cable
- PVC jacket • Gray • 7 x 43 stranded

Part No.	Cross Ref. No.	Conductors	100 ft.	1000 ft.
103430EX	MTC4	4	**$3.30**	**$30.00**
103448EX	MTC6	6	**7.00**	**50.00**
103450EX	MTC8	8	**10.00**	**62.00**

2-Conductor Stranded Power/Speaker Cable – 24 AWG



- Black wire with white polarity stripe
- Temperature rating: 20˚C to 60˚C
- Stranded copper wire (7 x 32)
- Operating voltage: 300V

Part No.	Cross Ref. No.	Wt. (lbs.)	100 ft.	Part No.	Cross Ref. No.	Wt. (lbs.)	1000 ft.
100280EX	224BK/C	0.8	**$5.59**	**100298EX**	224BK/K	7.8	**$39.95**

RG Type Bulk Coaxial Cable

RG58/U & RG58A/U (50Ω): Nom. cap.: 27pF/ft.; center resist.: 10.4Ω/kft. @ 77˚F
RG59/U (75Ω): Nominal capacitance: 19pF/ft.; center resist.: 16.5Ω/kft. @ 77˚F
RG174/U (50Ω): Nominal capacitance: 30.8pF/ft.; center resist.: 97Ω/kft. @ 77˚F

- **Prepackaged and priced in increments of 100' or 1000'**

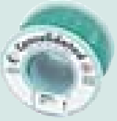
Part No.	Cross Ref. No.	Description	100 ft.	1000 ft.
102226EX	RG58/U	For ethernet, oscilloscopes (solid 20AWG)	**$12.00**	**$90.00**
116898EX	RG58A/U	For ethernet, oscilloscopes (stranded 20AWG)	**19.00**	**150.00**
102218EX	RG59/U	For CATV & video patch cords (solid 22AWG)	**13.00**	**110.00**
112037EX	RG174/U	For ethernet, oscilloscopes (stranded 26AWG)	**19.00**	**169.00**

Twisted Pair Cable – 24 AWG

- PVC insulation • Use for hook up wire
- Stranded tinned wire (7 x 32) • Reduced EMI
- Wt.: 100' (0.5 lbs.); 1000' (4.7 lbs.) • 80C° • 300 V

Part No.	Cross Ref. No.	Color	100 ft.	Part No.	Cross Ref. No.	Color	1000 ft.
105911EX	224GW/C	Green/white	**$5.49**	**105806EX**	224GW/K	Green/white	**$44.95**
173147EX	224RW/C	Red/white	**5.49**	**173155EX**	224RW/K	Red/white	**44.95**
173163EX	224BW/C	Black/white	**5.49**	**173171EX**	224BW/K	Black/white	**44.95**

Solid Hook-Up Wire – 22 AWG



- Temp. range: -55°C to +105°C • Passes UL VW-1 flame test
- MIL-W-16878D type B • Wt.: 100' (0.3 lbs.); 1000' (3.8 lbs.)
- For use with breadboards such as the JE20 series, pg 46

Part No.	Cross Ref. No.	Color	100 ft.	Part No.	Cross Ref. No.	Color	1000 ft.
36767EX	122BE/C	Blue	**$5.49**	**36775EX**	122BE/K	Blue	**$39.99**
36791EX	122BK/C	Black	**5.49**	**36804EX**	122BK/K	Black	**39.99**
36821EX	122G/C	Green	**5.49**	**36839EX**	122G/K	Green	**39.99**
36855EX	122R/C	Red	**5.49**	**36863EX**	122R/K	Red	**39.99**
36880EX	122W/C	White	**5.49**	**36898EX**	122W/K	White	**39.99**
36919EX	122Y/C	Yellow	**5.49**	**36927EX**	122Y/K	Yellow	**39.99**

Stranded Hook-Up Wire – 20/22 AWG

300 Volts

- 80°C • PVC insulation • CSA: TR-64 • UL style: 1007
- Temperature range: -40°C to +80°C • **Sold in 100' rolls**

Part No.	Cross Ref. No.	AWG	Strands (No. x AWG)	Color	Wt. (lbs.)	1	10
126084EX	223SBK/C	22	7 x 30	Black	0.4	**$3.39**	**$2.99**
126033EX	223SR/C	22	7 x 30	Red	0.4	**3.39**	**2.99**
126076EX	223SW/C	22	7 x 30	White	0.4	**3.39**	**2.99**
125840EX	203SBK/C	20	10 x 30	Black	0.6	**4.95**	**4.49**
125794EX	203SR/C	20	10 x 30	Red	0.5	**4.95**	**4.49**
125831EX	203SW/C	20	10 x 30	White	0.5	**4.95**	**4.49**
125786EX	183SBK/C	18	16 x 30	Black	0.8	**5.79**	**5.25**
125735EX	183SR/C	18	16 x 30	Red	0.8	**5.79**	**5.25**

Kynar™ Wire Wrap Wire – 30 AWG

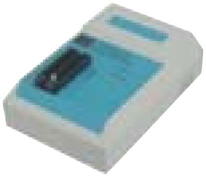
22541EX

- Assorted color coded insulation • Used for prototyping
- Color coded Kynar™ (Polyvindene Fluoride) insulation
- Silver plated copper (solid conductor) • UL 1423
- Temperature: -40°C to +125°C
- Wire wrap tools, see web • Passes UL VW-1 flame test

Part No.	Color	Wt. (lbs.)	100 ft.	Part No.	Color	Wt. (lbs.)	100 ft.
22541EX	Blue	0.1	**$4.95**	**22664EX**	White	0.1	**$4.95**
22576EX	Black	0.1	**4.95**	**22605EX**	Green	0.1	**4.95**
22630EX	Red	0.1	**4.95**	**22699EX**	Yellow	0.1	**4.95**

Programmers

Flash Writer/Programmer with USB Interface



- Programs 8-bit FLASH serial ICs via USB cable on Windows® 9x/2000/XP
- High speed: Only 22 seconds to blank check, program, and verify MXIC MX29F040
- File formats supported: binary and machine code, Intel HEX, Motorola HEX, Tektronix
- Type, read, load, edit, checksum, erase, blank check, program, verify, protect functions
- Supports Flash EPROM, EPROM and EEPROM

Includes: USB cable, 12V @ 500mA adapter, CD-ROM software and manual

Part No.	Description	1	5
225947EX	Leaper 3D	**$199.95**	**$179.95**

For XELTEK Programmers see our website.

512k E(E)PROM / Flash Programmer USB Interface

- Programs EPROMs 27C/LV (64 – 080); EEPROMs 28C (256-040); Flash EPROMs 29C(256-040) / 29EE/LE (512-020)/28F(256-020A)/ 29F(010-040) & more
- 2 sockets for master/slave operation
- Stand-alone mode uses two 9V batteries
- Adjustable IC parameters, such as programming algorithm, Vpp voltage, & pulse width
- Supports file formats binary & machine code, INTEL HEX, Motorola HEX
- Supports Windows® 95/98/NT/2000/ME/XP
- Size: 6.3"L x 4.3"W x 1.8"H

FUNCTIONS

Stand Alone Mode:

- Functions	- Verify	- Type
- Program	- Blank check	

PC-Based Mode:

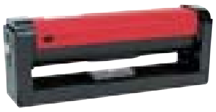
- Type	- Read	- Program
- Blank check	- Verify	- Erase
- Disk	- Help	- Process
- Parameter		

Includes: USB cable, 12VDC @ 500mA power adapter; and CD-ROM

Part No.	Description	1	5
220636EX	Leaper-3C	**$275.95**	**$249.95**

EPROM Erasers and Accessories

66042EX:


66042EX

- Erases 1 chip in 7 minutes
- Conductive foam liner eliminates static build-up
- UV intensity: 6.5mW/cm²
- Size: 6.8"L x 1.5"W x 2.3"H
- Weight: 0.8 lbs.
- One-year warranty

Requires: Four AA batteries (not included)

15712EX:

15712EX

- Erases 1 chip in 15 minutes or 8 chips in 21 minutes
- UV intensity: 6.8mW/cm²
- Maintains constant exposure distance of 1"
- Conductive foam liner eliminates static build-up
- Built-in safety lock to prevent UV exposure
- Complete with holding tray for 8 chips
- Size: 9.0"L x 3.7"W x 2.6"H • Weight: 2.3 lbs.

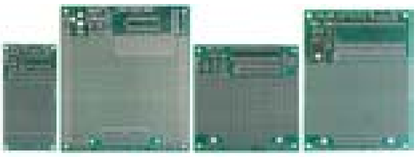
Part No.	Description	1	5
66042EX	Portable eraser	**$54.95**	**$49.95**
15712EX	8-chip eraser	**119.95**	**109.95**
34382EX	Lamp for P/N 15712	**39.95**	**39.95**
13864EX	Foam (12"x24"x0.25")	**9.29**	**8.35**

Tell us about products you would like us to offer.
Send requests to: AtHome@Jameco.com

microEngineering Labs

"PICProto" Prototyping Boards

- High quality blank prototyping boards for PICmicro microcontrollers
- Holds microcontroller, 5V regulator, oscillator, capacitors and DB9-25 connector
- Double-sided board with plated-through holes


132644EX 176891EX 132636EX 132652EX

Includes: Documentation sheet with schematic, suggested parts and placement

PICProto 18, 18L: For all 18-pin PICs including PIC16C52, 54, 56, 58, 554, 558, 61, 620, 621, 622, 71, 710, 711, 712, 715, 716, 84, 16CE623, 624, 625, 16F627, 628, 83, and 84

Part No.	Description	Size (L" x W")	1	10
132644EX	PICProto 18	3.0 x 1.5	**$9.95**	**$8.95**
176891EX	PICProto 18L	3.6 x 4.1	**19.95**	**17.95**

PICProto 3: For the 28-pin PIC16C62, 63, 642, 66, 72, 76, 773, 16F73, 76, 870, 872, 873, 876, 18C242, and 252

Part No.	Description	Size (L" x W")	1	10
132636EX	PICProto 3	3.0 x 3.0	**$14.95**	**$13.49**

PICProto 64: For the 40-pin PIC16C64, 65, 662, 67, 74, 77, 774, 16F74, 77, 871, 874, 18C422, and 452

Part No.	Description	Size (L" x W")	1	10
132652EX	PICProto 64	4.0 x 3.0	**$16.95**	**$14.95**

microEngineering Labs

EPIC Plus PICmicro Programmer

The EPIC Plus Programmer quickly and easily programs the PIC12Cxxx, 12CExxx, 16C505, 16C55x, 6xx, 7xx, 84, 9xx, 16CE62x, 16F62X, 7x, 8x, 87x, 14C000, 17C7xx, 18Cxxx microcontrollers from Microchip. The basic programmer includes an 18-pin socket for programming 8, 14 and 18-pin PICmicro MCUs.

- Interactive software for Windows and DOS
- Command line operation for automated, non-interactive programming

Requires: Two 9V batteries or AC adapter (below) **Includes:** Assembler software

Part No.	Description	1	10
132679EX	EPIC Plus PICmicro programmer	**$59.95**	**$53.95**
136397EX	8/18/20-pin ZIF adapter	**34.95**	**31.95**
132610EX	40/28-pin ZIF adapter	**34.95**	**31.95**
162317EX	AC wall adapter (16VDC/500mA, details on pg 24)	**7.95**	**6.95**
67256EX	6' DB25 cable (details on pg 80)	**6.45**	**5.79**

microEngineering Labs

PICBasic and PICBasic Pro Compiler

132661EX

Converts your BASIC programs into files that can be programmed directly into a PICmicro MCU.

- Compatible with most PICmicro MCU programmers including EPIC plus
- I2C instructions to access external serial EEPROMs
- Use in DOS or Windows (includes Windows editor/DE software)

132661EX: PICBasic Compiler

- Expanded BASIC Stamp I compatible instruction set
- Supports PC12C67x, PIC14Cxxx, PIC16C55x, 66x, 7xx,84, 92x, and PIC16CF8xx microcontrollers • May use up to 2k of code space

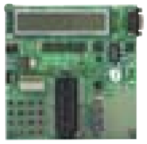
150543EX: PICBasic Pro Compiler

- Direct and library routine access to any pin or register
- Automation page boundary handling past 2k • Bit, byte, word arrays
- Real If…Then…Else…Endif • Hierarchical expression handling
- Built-in LCD support • MPLAB/MPASM/ICE compatibility
- Supports 12C5xx, 12C67x, 12CE67x, 14C000, 16C5x, 16C55x, 6xx, 7xx, 84, 92x, 16CE62x, 16F62x, 7x, 8x, 87x, 17Cxxx, and 18Cxxx microcontrollers

Part No.	Description	1	10
132661EX	PICBasic compiler	**$99.95**	**$89.95**
150543EX	PICBasic Pro compiler	**249.95**	**224.95**

microEngineering Labs

LAB-X1 Experimenter's Module Board



A pre-assembled experimenter's platform, providing an assembled testbed containing the circuitry commonly used with PICmicro microcontrollers. Projects may be created using the LAB-X1, including calculator, voltmeter, LCD backpack, tone dialer, and RC servo controller.

- 40-pin ZIF socket for PICmicro MCU (not included, PIC16F877-20/P recommended) • Jumper selectable oscillator from 4MHz to 20MHz
- Reset button • 16 switch keypad • 3 potentiometers • LED bargraph
- 2 lines x 20 characters LCD module • Speaker • 2 RC servo connectors
- RS232 interface • Socket for RS485 interface (device not included)
- Socket for real time clock/serial analog to digital converter (devices not included)
- EPIC in-circuit programming connector • Prototyping area for additional circuit
- Wiring for microchip in-circuit debug connector

Requires: AC adapter (below)

Part No.	Description	1	10
169113EX	LAB-X1 Experimenter Board	**$199.95**	**$189.95**
176882EX	PIC16F877-20/P microcontroller	**9.49**	**8.49**
127976EX	AC adapter (details on web)	**4.75**	**4.29**

Circuit Boards and Accessories

DATAK

Photo Etch™ Printed Circuit Kit

Generate your own 1:1 artwork. Then use the patented Fast Neg film process to make a photo negative and sensitize and expose a blank copper board. Finish by developing & etching. No camera or darkroom is required.

Part No.	Product No.	Wt. (lbs.)	1	10
16731EX	12-750*	4.6	**$39.95**	**$36.95**

DATAK

Direct Etch PCB "Starter" Set

Includes: 4 blank circuit boards, dry concentrated ferric chloride etchant, instructions, 8 sheets of direct etch donuts, DIP, patterns, lines and 1/32" & 1/16" etch resist tape.

Part No.	Product No.	Wt. (lbs.)	1	10
70412EX	ER1	0.7	**$11.95**	**$10.95**

DATAK

Dry Concentrated Etchant

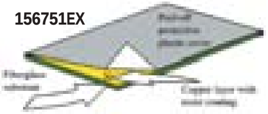
- Makes one pint of etch solution

Part No.	Prod. No.	Description	1	10
70201EX	ER3	Dry etchant	**$3.95**	**$3.49**

DATAK

Pre-Sensitized Circuit Boards & Developer

- Pre-coated circuit board
- Size: 3.0"L x 4.0"W x 1/16"T


156751EX

Includes: Instructions

Part No.	Description	1	10
156751EX	Single sided	**$4.95**	**$4.49**
156742EX	Double sided	**6.49**	**5.85**
156734EX	4 oz. Pos. developer*	**6.95**	**5.95**

***Hazardous material. UPS ground to continental U.S. only**

Acid Brush

- Used for application of reactive solvents

Part No.	Description	1	10
153322EX	Metal handle, 6"	**$.65**	**$.59**

More @ www.Jameco.com

Miscellaneous Chemical Products on our website.

Copper-Plated Blank Circuit Boards

Ideal for hobbyists and students doing prototypes of circuits. Copper plating on board for either single-sided or double-sided boards.

- 1.6mm thickness

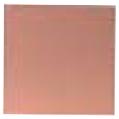


Fig. 1

Fig. 2

Fig. 3

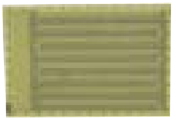
Part No.	Mfr. Cross Ref. No.	Description	Size (L" x W")	Fig.	Wt. (lbs.)	1	10
169279EX	PCBS3X6	Single side	3.0 x 6.0	3	0.1	**$3.49**	**$3.15**
169287EX	PCBS6X6	Single side	6.0 x 6.0	2	0.2	**4.95**	**4.49**
169295EX	PCBS12X12	Single side	12.0 x 12.0	1	0.5	**13.49**	**12.14**
169308EX	PCBD3X6	Double side	3.0 x 6.0	3	0.1	**5.25**	**4.73**
169316EX	PCBD6X6	Double side	6.0 x 6.0	2	0.2	**7.95**	**7.15**
169324EX	PCBD12X12	Double side	12.0 x 12.0	1	0.7	**17.95**	**15.95**

General Purpose Prototyping Boards

Select the prototype board that fits your needs from our comprehensive product listing. Prototyping boards with punched holes are convenient, economical tools for assembling circuit components and trying cost-effective alternatives to custom designs.

- 0.062" board thickness
- 0.1" hole spacing
- 0.08" pad size
- Plated through pads are double-sided
- PCB material epoxy glass
- Connector I/O or edge: None

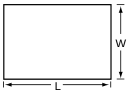
See pg 47 for PCB mounting enclosures and hardware (recommend P/N 106551EX)



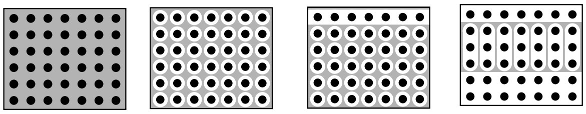
21434EX

21477EX

Board Outline



Circuit Patterns



A Holes Only

B Pad Per Hole

C Power/Ground Perimeter Bus with Pad Per Hole

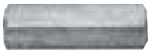
D 3 Hole Solder Pad and Bus

Part Number	Product Number	Size (W" x L")	Fits Enclosure(s) (see page 41)	Circuit Pattern	Hole Pads	# Holes x Dia. †	Power/Ground Busses	# Mounting Holes x Dia.	Weight (lbs.)	Pricing 1	10
105099EX	2855PCB	1.60 x 2.70	18921EX	B	Single-sided	288 x .035"	None	2 x .115"	.02	**$5.25**	**$4.73**
105101EX	5002PCB	1.50 x 3.50	11957EX	C	Single-sided	365 x .038"	4	2 x .140"	.02	**6.95**	**6.25**
28177EX	PCB1	2.42 x 4.10	18913EX	C	Plated through	674 x .040"	None	4 x .120"	.04	**5.95**	**5.35**
105136EX	2320PCB	3.30 x 4.50	11885EX	C	Single-sided	1266 x .035"	4	4 x .140"	.06	**9.95**	**8.95**
105161EX	2852PCB	3.60 x 7.00	18905EX, 11973EX	B	Single-sided	2225 x .035"	4	4 x .140"	.10	**14.95**	**13.45**
21434EX	JE401(8001)	4.50 x 6.50	18868EX	B/D	Single-sided	2360 x .042"	2	None	.12	**21.95**	**19.76**
21451EX	JE405(8003)	4.50 x 6.50	18868EX	C	Single-sided	2360 x .042"	1	None	.12	**19.95**	**17.95**
21477EX	JE407(8006)	5.00 x 13.25	N/A	B	Plated through	6063 x .038"	None	8 x .120"	.28	**41.19**	**37.07**
105187EX	2507PCB	6.10 x 8.80	18876EX	C	Single-sided	4771 x .035"	7	8 x .140"	.21	**29.95**	**26.95**
37621EX	169P84WE	8.50 x 17.0	N/A	A	Drilled only	14448 x .042"	None	None	.53	**23.95**	**22.75**

† All 0.042" diameter hole boards use terminals T44, T49, and T421 (see website)

Hardware, Cabinet and Boxes

Aluminum & Brass Threaded Standoffs

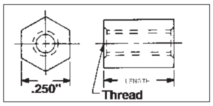


Hex.187"/.250" Female

† Finish: Iridite (clear)¹ per MIL-C-5541-D

✳ **Prepackaged: order in increments of 10**

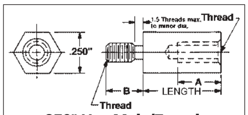
Hex .250" Male/Female



.250" Hex Female

.250" Hex Female *4-40 Thread .250" Hex*

Part No.	Metal†	Hex Length	1	10
139192EX	Alum¹	.250"	✳	**$.16**
77500EX	Alum¹	.375"	✳	**.20**
134762EX	Alum¹	.437"	✳	**.21**
108370EX	Alum¹	.500"	✳	**.25**
77518EX	Alum¹	.625"	**.42**	**.35**
133604EX	Alum¹	.750"	**.39**	**.35**



.250" Hex Male/Female

.250" Hex Male/Female

4-40 Thread (Thread A: .250"; B: .187")

Part No.	Metal†	Hex Length	1	10
111755EX	Alum¹	.500"	**$.49**	**$.44**
139221EX	Alum¹	.750"	**.43**	**.39**
128565EX	Alum¹	1.25"	**.59**	**.53**

SAE Hardware

- Zinc-plated steel

Prepackaged: order in increments of 100 or 1000

Slotted Pan Head Machine Screws

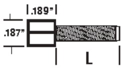
Part Number	Screw Size	Thread	Length (in.)	100 piece minimum 100	1000
38172EX	2-56	Std	.250	**$.025**	**$.022**
40951EX	4-40	Std	.250	**.019**	**.011**

Hex Nuts

38164EX	2-56	Std	.183	**$.022**	**$.014**
40942EX	4-40	Std	.243	**.025**	**.013**

.187 Hex Male/Female

4-40 x .187" Jack Screws and Hex Nut



169931EX/172603EX/102816EX

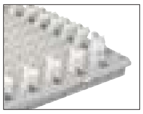
108986EX

Part No.	Description (Brass)	1	10
169931EX	.275"L jack screws	✳	**$.15**
172603EX	.315"L jack screws	✳	**.14**
102816EX	.435"L jack screws	**.49**	**.46**
108986EX	.515"L jack screws	**.55**	**.50**

Plastic Fliptop Case for SMDs

128 Compartments for Surface Mount Components

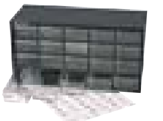
- 8 rows x 16 columns grid
- Padded cover locks bins closed
- Fliptop openings on each bin



Includes labels for each bin

Part No.	Description	Size	1	10
164267EX	SMD fliptop case	11.0"L x 8.3"W x 1.7"T	**$49.95**	**$44.99**

Component Cabinet



81701EX

Drawer (85454EX) Divider (85446EX)

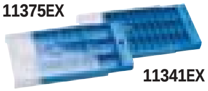
- Drawer can be divided into 4 sections (clear)
- Wall mountable cabinet (ABS black)
- Cabinet size: 6.0"D x 15"W x 7.9"H
- Drawer size: 5.5"L x 2.7"W x 1.5"H
- Divider size: 2.4"L x 1.1"H • Weight: 4.7 lbs.

Includes: 20 clear plastic drawers, 20 dividers and 30 adhesive I.D. labels

✳ **Prepackaged: order in increments of 10**

Part No.	Description	1	10
81701EX	Component cabinet	**$15.95**	**$13.95**
85454EX	Drawer for cabinet	**.39**	**.35**
85446EX	Divider for drawer	✳	**.19**

Bug Boxes



- Anti-static plastic
- Fits in bug cage (P/N 11332EX, see web)
- **11341EX:** stores sixty 8-pin or thirty 16-pin DIPs
- **11375EX:** Designed to store all types of components
- 6 ea. vertical & horizontal dividers

Part No.	Description	1	10
11341EX	30 compartments	**$3.95**	**$3.49**
11375EX	3 compartments	**3.95**	**3.56**

Plastic Fliptop Boxes

- Clear plastic box with a clear plastic lid and removable dividers

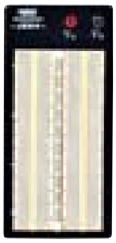
100255EX: Size: 8.4"L x 4.5"W x 1.4"H
- 18 compartments (1.4" x 1.5" each)

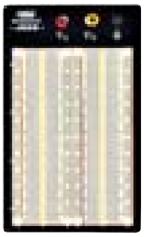
148902EX: Size: 10.2"L x 4.7"W x 1.6"H
- 12 compartments (1.7" x 2.3" each)

100255EX

Part No.	Description	1	10
100255EX	18 compartments	**$2.25**	**$1.95**
148902EX	12 compartments	**3.95**	**3.49**

Solderless Breadboards


20757EX

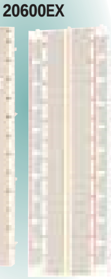

20773EX

20790EX

20811EX

20600EX

20669EX


20722EX

These long-lasting solderless breadboards feature screen-printed color coordinates suitable for many types of digital and analog prototyping and circuit design. Larger models feature a heavy-duty aluminum backing with binding posts. Use Jameco's AC / DC breadboard power supply, P / N 77681EX (bottom right).

- Accepts most electronic components, including integrated circuits and transistors for digital and/or analog circuitry • 0.1" hole spacing
- Pins are identified by numbered rows and columns • Ideal for high frequency and low noise circuits
- Low static, plastic body – CMOS safe • Use to breadboard and debug circuit designs
- Nickel-plated clips designed to withstand up to 5,000 insertion cycles
- Breadboard strips connect together to form larger working areas • One-year warranty
- Components are easily interconnected using 20-28 AWG wire (P/N 19289EX & 20079EX, right)
- Some models feature heavy-duty aluminum backings (JE24, JE27)

Attention Educators! Buy jumper wire (right) in bulk and SAVE! **(see Hook-up Wire on pg 43)**

Part Number	Product Number	Terminal Strips	Bus Strips	Contact Points	Binding Posts	Breadboard Size L x W (In.)	Baseplate Size L x W (In.)	Weight (lbs.)	Pricing	
									1	10
20600EX	JE21	1	2	400	0	3.3 x 2.1	—	0.13	**$5.25**	**$4.73**
20669EX	JE22	1	0	630	0	6.5 x 1.4	—	0.20	**5.49**	**4.95**
20722EX	JE23	1	2	830	0	6.5 x 4.0	6.5 x 2.1	0.30	**9.39**	**8.45**
194271EX	JE34	2	3	1,560	3	6.5 x 4.0	8.5 x 4.7	0.78	**15.95**	**14.39**
20757EX	JE24	2	1	1,360	2	6.5 x 3.1	8.5 x 4.0	0.60	**13.65**	**12.28**
20773EX	JE25	2	4	1,660	3	6.5 x 4.3	8.5 x 5.1	0.80	**19.95**	**17.95**
20790EX	JE26	3	5	2,390	4	6.9 x 5.8	9.1 x 6.9	1.10	**27.29**	**24.56**
20811EX	JE27	4	7	3,220	4	7.3 x 7.5	9.5 x 8.3	1.40	**33.59**	**30.23**

Digital Design Lab

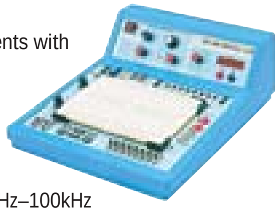
- Two 7-Segment Displays (digit height: 0.3") • One-year warranty

Solderless Breadboard
- Interconnected nickel-plated tie points, fitting all DIP sizes and all components with AWG #22-30 (0.3-0.8mm) solid leads • 1580 tie points

DC Power Supplies
- DC supplies equipped with short circuit protection
- Variable DC power: 0 to +15V & 0 to -15V @ 0.5A
- Fixed power supply: ±5VDC @ 1.0A

Function Generator (5 ranges)
- Frequency range: 1Hz–10Hz, 10Hz–100Hz, 100Hz–1kHz, 1kHz–10kHz, 10kHz–100kHz
- Sine wave output: 0–8 Vp-p variable • Triangle wave output: 6Vp-p fixed
- Square wave output: ±5V fixed • DCV digital multimeter

Includes: Power cord and manual



International 115 / 220VAC Switchable

Our most popular digital lab!

Part No.	Description	Size (W" x D" x H")	Weight (lbs.)	Price
75838EX	Digital lab	10.6 x 13.3 x 5.0	8.1	**$276.95**

Digital-Analog Design Lab

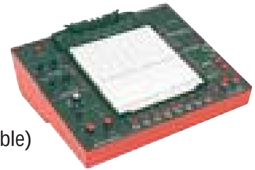
Solderless Breadboard
- 2712 interconnected nickel-plated tie points, fitting all DIP sizes and all components with AWG #22-30 (0.3-0.8mm) solid leads

DC Power Supplies
- Variable DC output: 0 to +15V & 0 to -15V @ 500mA; Fixed DC output: +5VDC@1A; -5VDC@300mA • Input power: 120/220VAC @ 50-60Hz (switchable)

Function Generator
- Frequency ranges: 1Hz–10Hz, 10Hz–100Hz, 100Hz–1kHz, 1kHz–10kHz, 10kHz–100kHz
- Sine wave output: 0–8 Vpp variable • Triangle wave output: 0–6 Vpp variable
- Square wave output: 0–8 Vpp variable

Other features:
- 2 variable resistors: VR1=1kΩ, VR2=100kΩ • 8 data switches • 2.5" dia. 8Ω, 25W speaker
- 2 pulse switches (2 sets of outputs: $\bar{A}$, A, $\bar{B}$, B) • 2 banana sockets, 2 BNC jacks • One-year warranty
- Two 7-segment LED displays (digit height: 0.3") • 8 red LEDs with separate input terminals

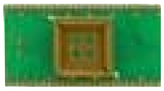
Includes: Power cord and manual



International 120 / 220VAC Switchable

Part No.	Description	Size (W" x D" x H")	Weight (lbs.)	Price
136266EX	Digital-analog lab	12.8 x 9.8 x 3.7	8.5	**$379.95**

PLCC Prototype Adapters

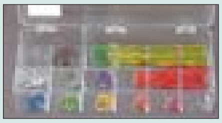


- PCB construction
- Silkscreen numbers identify pin numbers in groups of 5 and 10
- Gold-plated round pins
- Tin-plated PLCC connector
- PLCC socket identifies pin 1 and orientation key
- PLCC socket slotted for PLCC chip remover

Part No.	Pins	Size (L x W)	1	10
73550EX	68	3.4" x 1.6"	**$15.95**	**$14.49**

Wire Jumper Kit (350 pcs.)

- 25 each of lengths 0.1" through 5.0" (14 sizes)
- 350 assorted lengths in 13 colors
- Pre-stripped/preformed 22 AWG solid wire jumpers


19289EX

19289EX: 350-piece wire jumper kit
- Handy, durable, clear plastic case

20079EX: 350-piece refill only for 19289EX

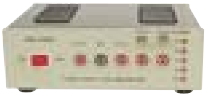
Part No.	Description	1	10
19289EX	Wire jumper kit	**$15.95**	**$14.39**
20079EX	Refill for 19289EX	**10.99**	**9.89**

Reinforced Jumper Wires

- 24 AWG-300 volts
- Reinforced pin ends for durability
- 10 pack assortment: 2 each yellow, white, red, black & blue

Part Number	Mfr. Cross Ref. No.	Length (mm / inch)	1	10
126359EX	JW50	50 / 1.97	**$3.95**	**$3.49**
126341EX	JW100	100 / 3.94	**4.95**	**4.49**
126324EX	JW200	200 / 7.87	**5.19**	**4.69**

AC/DC Power Supply



Output Specifications:
+5VDC @ 1A; -5V @ 300mA fixed;
0 to +15VDC @ 500mA variable,
0 to - 15VDC @ 300mA variable;
12-6-0-6-12 tapped VAC, 300mA fixed

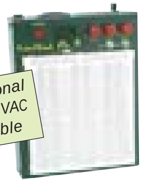
International 120 / 220VAC Switchable

- Input power: 120/220VAC @ 50-60Hz (switchable)
- Indicator lamps and power fuses
- Compact and lightweight • Plug and use
- For both digital and analog circuits • Color: beige
- Compatible with test leads P/N 77841EX, pg 58
- Size: 7.4"W x 5.5"D x 2.6"H • Weight: 5.5 lbs.

Part No.	Description	Price
77681EX	Power supply	**$119.95**

Powered Project Board

- Solderless breadboard with 2420 tie points
- DC power supplies: +5V @ 1A; variable power 0 to +15VDC and 0 to -15VDC @ 500mA
- Back panel has ground terminal
- Outputs are short-circuit protected
- Edge plate for non-DIP size components
- Input power: 120/220VAC @ 50-60Hz (switchable)
- Replacement fuse: P/N 103907EX, pg 32
- Breadboard size: 7.4"L x 6.8"W
- Enclosure size: 9.8"L x 8.0"W x 2.6"H • Wt.: 6.8 lbs.



CE

International 120 / 220VAC Switchable

Includes: Power cord

Part No.	Description	Price
136258EX	Powered breadboard	**$99.95**

Prototype Builder Boards, Enclosures and Hardware

Call for additional OEM pricing.

The prototype builder boards on this page are specifically designed to fit into our ABS speedy boxes, die cast aluminum enclosures, aluminum boxes, metal cabinets and heavy-duty instrument cases shown in each grouping. These pre-cut boards have 2 or 4 mounting holes compatible with the PC board mounting hardware listed at the bottom, right (P / N 106551EX).
Board description: laminated glass epoxy 1 / 16" thick fire retardant per FR-4 specs. Copper-clad and solder mask one side. Drilled holes: .035" diameter on .080" square pad. Pads spaced on .10" x .10" grid.

*All boards sold individually; multiple boards shown

Hardware Set; 20 pcs.
(used with all boards)
(see details below)

See website for hardware and knobs and more printed circuit board details

ABS Speedy Enclosures

18913EX

Will not crack or split when drilled or punched. PCB mounting slots on all four sides. Lid has a lip for precision fit (adds 0.4" height). Complete with four screws and lid. All sizes below are for interior dimensions. • Color: black • ABS plastic

Part No.	Product No.	Size (L x W x D)	Wt. (lbs.)	1	10
18921EX	H2855	3.1" x 2.0" x 0.9"	0.1	**$3.15**	**$2.84**
18913EX	H2853	4.9" x 2.5" x 1.5"	0.2	**3.69**	**3.32**
18892EX	H2851	6.0" x 3.5" x 1.9"	0.4	**4.79**	**4.31**
18905EX	H2852	7.5" x 4.3" x 2.3"	0.5	**6.89**	**6.20**

Printed Circuit Boards for Above Enclosures

105099EX

- Power/ground, perimeter bus with pad per hole (*except P/N 105099EX) • Plated one side holes

Part No.	Product No.	Size (L x W)	No. of Holes	1	10
105099EX*	2855PCB	2.7" x 1.6"	288	**$5.25**	**$4.73**
105128EX	2853PCB	4.4" x 2.0"	669	**7.95**	**6.95**
105152EX	2851PCB	5.5" x 3.1"	1450	**9.95**	**8.95**
105161EX	2852PCB	7.0" x 3.6"	2225	**14.95**	**13.45**

Die-Cast Aluminum Enclosures

11973EX

High-quality die-cast aluminum cases come with channeled walls for easy PCB mounting. Ideal for RF circuits because the lid forms an effective screen against RFI interference. Made from aluminum, an excellent heat-sink, these cases are great for high temp circuits (up to 600°C). Complete with screws.

Part No.	Product No.	Size (L x W x D)	Wt. (lbs.)	1	10
11957EX	B5002	3.9" x 2.0" x 1.0"	0.2	**$5.95**	**$5.39**
11965EX	B5004	4.7" x 2.4" x 1.6"	0.4	**8.49**	**7.64**
11973EX	B5006	7.5" x 4.3" x 2.4"	1.2	**13.95**	**12.56**

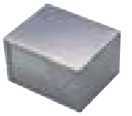
Printed Circuit Boards for Above Enclosures

105101EX

- Power/ground, perimeter bus with pad per hole
- Plated one side holes

Part No.	Product No.	Size (L x W)	No. of Holes	1	10
105101EX	5002PCB	3.5" x 1.5"	365	**$6.95**	**$6.25**
105128EX	5004PCB	4.4" x 2.0"	669	**7.95**	**6.95**
105161EX	5006PCB	7.0" x 3.6"	2225	**14.95**	**13.45**

Aluminum Enclosures


11885EX

Ideal boxes for those projects that get left lying around! Put them in an economical aluminum enclosure. The enclosure comes in two pieces which slide together.

Part No.	Product No.	Size (L x W x D)	Wt. (lbs.)	1	10
11869EX	B2300	4.0" x 2.0" x 2.8"	0.2	**$5.45**	**$4.69**
11885EX	B2320	5.0" x 4.0" x 3.0"	0.4	**7.89**	**6.15**
11893EX	B2335	7.0" x 6.2" x 4.6"	0.8	**10.95**	**9.25**

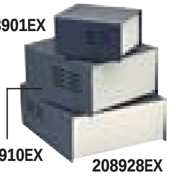
Printed Circuit Boards for Above Enclosures

105136EX

- Power/ground, perimeter bus w/ pad per hole
- Ground Bus • Plated one side holes

Part No.	Product No.	Size (L x W)	No. of Holes	1	10
105110EX	2300PCB	3.4" x 2.4"	637	**$7.95**	**$6.95**
105136EX	2320PCB	4.5" x 3.3"	1266	**9.95**	**8.95**
105179EX	2335PCB	6.5" x 5.0"	2829	**14.95**	**13.49**

Metal Enclosures



High-quality metal enclosures are made to suit a large variety of electronics projects and applications. The base is made of aluminum. Slots are located on the sides of the cases for maximum cooling. Cases screw together and come with an attractive two-tone finish.

- Mounting screws and rubber feet included

Part No.	Product No.	Size (L x W x D)	Wt. (lbs.)	1	10
208901EX	B2741A	4.0" x 3.3" x 2.2"	0.4	**$6.49**	**$5.89**
208910EX	B2743A	5.9" x 5.3" x 3.0"	0.8	**7.99**	**7.19**
208928EX	B2744A	7.3" x 6.3" x 2.8"	1.1	**8.99**	**7.99**
209357EX	B2747A	7.5" x 9.8" x 3.2"	1.4	**14.99**	**13.49**

Printed Circuit Boards for Above Enclosures

- Power/ground, perimeter bus with pad per hole • Plated one side holes

Part No.	Product No.	Size (L x W)	No. of Holes	1	10
105110EX	2741PCB	3.4" x 2.4"	637	**$7.95**	**$6.95**
206578EX	2743PCB	4.7" x 4.5"	1869	**7.49**	**6.74**
105179EX	2744PCB	6.5" x 5.0"	2829	**14.95**	**13.49**

Heavy-Duty Instrument Cases

18868EX

Both cases split apart for ease of working. Four plastic feet molded on unit. P / N 18876EX includes ventilation and speaker sound slots. • Color: gray

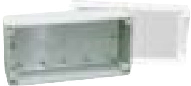
Part No.	Mfr. Cross Ref. No.	Size (L x W x D)	Wt. (lbs.)	1	10
18868EX	H2505	7.9" x 6.3" x 2.5"	0.8	**$7.89**	**$7.10**
18876EX	H2507	10.0" x 7.5" x 3.1"	1.4	**8.99**	**7.99**

Printed Circuit Boards for Above Instrument Cases

- Power/ground, perimeter bus with pad per hole • Plated one side holes

Part No.	Product No.	Size (L x W)	Holes	1	10
105179EX	2505PCB	6.5" x 5.0"	2829	**$14.95**	**$13.49**
105187EX	2507PCB	8.8" x 6.1"	4771	**29.95**	**26.95**

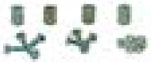
ABS Enclosures w/ Clear Tops


141840EX

Made of gray ABS plastic w / clear polycarbonate top cover. Includes screws for mounting boards or electronic components, rubber gasket for a tight seal on your equipment & drilled holes for mounting.

Part No.	Product No.	Size (L x W x D)	Wt. (lbs.)	1	10
141831EX	203C1	4.6" x 3.2" x 1.8"	0.3	**$8.95**	**$8.09**
141840EX	203D1	6.3" x 3.2" x 1.8"	0.4	**9.95**	**8.99**
141858EX	203F1	7.0" x 5.5" x 2.5"	0.8	**11.95**	**10.79**

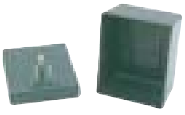
Mounting Hardware for PC Boards



- 4 spacers, 8 screws and 8 washers

Part No.	Description	1	10
106551EX	PC board mounting hardware	**$1.79**	**$1.65**

Wall Transformer Enclosure



- Enclosure includes 3-prong power plug & cable strain relief
- Material: noryl • Color: black
- Size: 3.4"H x 2.7"W x 2.3"D

Part No.	Style	1	10
115051EX	Non-vented	**$2.25**	**$1.95**

Heavy Duty Staplers

Built with all-steel construction with hardened steel working parts. These staplers and cable tackers are designed for the most demanding of environments. The standard stapler is perfect for contractors, home do-it-yourselfers, and specialty trade applications. We also offer the cable tackers that are ideal for a wide variety of applications such as telephone wire, cable TV, hi-fi systems, alarm systems, intercommunications and general electrical contract work. Both are made of durable nickel-plated steel for heavy-duty use. Rubber grip assures comfortable operation.

- Handle locking
- Easy rear loading
- Adjustable high impact tension knob
- Easy squeezing action
- Hand stop for safe stapling control

Part No.	Description	Price
227969EX	T-50 staple gun	**$19.95**
242878EX	Cable tacker	**24.95**
242886EX	4-in-1 staple gun	**28.95**
230295EX	T-50, 5/16", 1250 each	**2.45**
230308EX	T-50, 3/8", 1250 each	**2.75**

242878EX

227969EX: Handles 5/16"; 3/8", 1/2", & 9/16" staples, Use T-50 type staples

242878EX: 4.8mm maximum cable diameter, uses P/Ns 244988EX & 245008EX tackers, 1/4" width

242886EX: Handles T-50 staples; T-25 cable tackers; 14mm long pin nails; 12-14mm long brand nails

Part No.	Description	Price
230316EX	T-50, 1/2", 1250 each	**$2.89**
230324EX	T-50, 9/16", 1250 each	**3.15**
244988EX	3/8"L tackers, 1000 each	**1.69**
245008EX	9/16"L tackers, 1000 each	**1.89**
245016EX	T-25, 1/2"L tackers, 1000 each	**1.89**
245032EX	T-25, 9/16"L tackers, 1000 each	**2.25**

Nylon Cable Ties

Standard

126543EX

- Cable ties made from UL approved Nylon 66
- Temperature range: -40˚C to +85˚C
- Flammability rating: UL 94V-2
- Color: clear (except P/N 182676EX)
- ***Sold in increments of 100 or 1000***

Part No.	Tensile Strength (lbs.)	Dimensions (L" x W")	100	1000
126543EX	18	4.0 x 0.10	**$.02**	**$.014**
182650EX	18	5.5 x 0.13	**.035**	**.025**
182668EX	18	8.0 x 0.13	**.075**	**.05**
190772EX	40	11.0 x 0.19	**.10**	**.065**

Weather Resistant

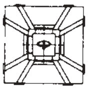
104141EX

- Contain Carbonate A for greater resistance to ultra violet rays in outdoor use
- Color: black
- ***Sold in increments of 100 or 1000***

UV Resistant

Part No.	Tensile Strength (lbs.)	Dimensions (L" x W")	100	1000
104141EX	18	4.0 x 0.10	**$.044**	**$.029**
190781EX	40	8.0 x 0.13	**.085**	**.065**
190799EX	40	10.0 x 0.14	**.10**	**.09**
190801EX	40	13.0 x 0.14	**.113**	**.088**

Nylon Cable Tie Mount



- Screw tab & cradle mount adhesive
- 1.1" square adhesive 4-way cable tie used with 0.2"W max
- ***Sold in increments of 10 or 100***

Part No.	Description	10	100
71394EX	4-way cable tie	**$.23**	**$.19**

Our complete selection is @ www.Jameco.com

Heat Gun/Stripper

Dual-Setting

- Use with heat shrink material
- Works with spot-dry paint, plaster, spackle cure adhesives
- Will remove adhesive-applied tiles and linoleum without chipping
- Dual heat setting: 600°F/1100°F
- UL listed
- Thaw pipes, frozen locks and loosen rusted bolts

Part No.	Description	1	10
76865EX	Heat gun	**$39.95**	**$35.95**
217816EX	Heat shrink attachment	**1.95**	**1.85**

PVC Heat Shrink Tubing

- 2:1 uniform shrink ratio
- Color: black
- Shrink temp: 125˚C
- Sold in 10' and 100' increments
- UL/CSA approved

182748EX

182772EX

Part No.	Dia. before (mm)	10 ft.	100 ft.
184721EX	.12" (3)	**$1.19**	**$10.50**
182730EX	.16" (4)	**1.39**	**12.50**
182748EX	.20" (5)	**1.45**	**13.00**
182756EX	.24" (6)	**1.49**	**13.50**
182764EX	.31" (8)	**1.79**	**16.00**
182772EX	.43" (11)	**2.80**	**19.00**
182781EX	.59" (15)	**3.50**	**30.00**

3M Tartan 1710 Electrical Tape

NEW

3M™ Tartan™ 1710 Vinyl Insulating Tape offers good resistance to abrasion, moisture, alkalis, acid, copper corrosion and varying weather conditions including ultraviolet.

- UL listed
- Flame retardant
- Length: 60'

Part No.	Description	Price
285587EX	Tartan™ electrical tape	**$.95**

Summer Sale
Save $10.00

Cordless, portable power tools for your weekend projects!

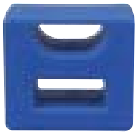
Take your shop with you wherever you work! This tough and economical set of cordless rechargeable tools puts home-improvement power in your hands in a hurry. The kit comes with two interchangeable 14.4V batteries and a quick charger so you never run out of power. Everything is contained in one convenient case so you won't forget one of your essential tools.

Specifications:

- **Drill/driver**—Variable speed reversing with a 3/8" keyless chuck, a 16 position clutch, metal gears, and bronze bushings.
- **Detail sander**—Triangle shaped for sanding in small and difficult-to-reach places. Counter-balanced drive shaft with ball-bearing support.
- **Jigsaw**—Adjustable base plate, 0.5" stroke, and 1750 SPM operation
- **Flashlight**—Has adjustable head so you can direct the beam where you really need it.

Part No.	Description	Price
235504EX	14.4 volt tool kit *Was ~~$79.95~~*	**$69.95**

Magnetizer / Demagnetizer



Magnetize tips of screwdrivers for easy pick-up of small metal objects; demagnetize tips to prevent electrostatic discharge that will damage electronic components.

- Size: 2.0"L x 2.0"W x 1.2"D

Part No.	Description	Price
239530EX	Magnetizer/Demagnetizer	**$6.99**

3M Super 33+ Electrical Tape

NEW

This tape provides flexibility and easy handling for all around performance. It combines PVC backing with excellent electrical insulating properties to provide primary electrical insulation for splices up to 600V and protective jacketing. Excellent resistance to UV rays, abrasion, moisture, copper corrosion, alkalis and acids, and is flame-retardant. Excellent all-weather performance in cold to 0°F (-18°C) and is designed to perform in a continuous temperature environment up to 220°F (105°C).

- UL listed and CSA certified
- Length: 66'

Part No.	Description	Price
285464EX	Electrical tape	**$4.35**

Fume Extractor and Filters

Absorbs noxious lead fumes using activated-carbon filter and a high-efficiency fan

- Air flow: 115 CFM
- Operate continuously providing filtered air
- Compact size allows use on work bench with minimum space
- 22 watt, 120VAC @ 60Hz
- Noise: 49dB fan
- Fuse protected
- Static ground jack
- On/off power switch
- Aerodynamic hood design for effective removal of solder fumes
- Removable carbon impregnated filter
- One-year warranty
- Black anodized aluminum case
- Size: 6.4"W x 4.6"D x 7.9"H • Weight: 4.6 lbs.

120150EX

Includes: Detachable power cord

Part No.	Description	1	10
120150EX	Fume extractor	**$58.95**	**$52.95**
127183EX	Replace. filters (2/pk)	**12.95**	**11.66**

Weller 40-Watt Soldering Station

- Lighted on/off switch
- Adjustable power from 5 watts to 40 watts
- 40 watt,120V @ 60Hz
- Temperature is electronically controlled from 350° to 850°F
- Size: 5.5"L x 4.5"W x 3.5"H • Weight: 1.9 lbs.

Includes: ST3 1/8" screwdriver tip, soldering station and manual

Part No.	Prod. No.	Description	1	10
146595EX	WLC100	Soldering station	**$48.95**	**$44.09**

Weller Soldering Tips

Replacement Tips for WLC100, WP25 & WP23

146608EX

146616EX

146624EX

Part No.	Prod. No.	Description	1	10
146608EX	ST1	Screwdrvr tip 1/16"	**$5.95**	**$5.35**
146616EX	ST3	Screwdrvr tip 1/8"	**5.95**	**5.35**
192145EX	ST6	Scrwdrvr tip .031"	**5.25**	**4.75**
146624EX	ST7	Conical tip 1/32"	**5.95**	**4.95**

Discover what you are looking for @ www.Jameco.com

More Soldering Equipment on our website.

Weller Analog Soldering Station

- Innovative heater and sensor combination for quick heat-up and rapid temperature recovery
- Tip temperature offset capability which allows user to reset temperature readings to match tip size and style
- Wireless temperature lockout
- Auto power down after 90 minutes of inactivity
- Temperature range: 350˚F to 850˚F (177˚C – 454˚C)
- Temp. accuracy: ±90˚F (±5˚C) • ESD safe
- Size: 5.9"L x 4.5"W x 3.6"H • Weight: 4.0 lbs.

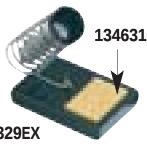
Part No.	Product No.	1	10
217461EX	WES51	**$115.95**	**$105.95**

16 to 30-Watt Variable Soldering Iron, Stand & Sponge

116572EX:
- Length: 7.5"

36329EX:
- Black anodized steel base – 5.3"L x 3.3"W
- See below for replacement sponge (P/N 134631EX)
- Fits most soldering irons .85" diameter

116572EX


134631EX

36329EX

Includes: Sponge

Part No.	Description	1	10
116572EX	Soldering iron	**$16.95**	**$15.29**
36329EX	Soldering stand	**4.95**	**4.46**
134631EX	Sponge (for 36329EX)	**2.99**	**2.69**

Weller Professional 25-Watt & 35-Watt Soldering Irons

- Interchangeable heater elements
- Lightweight handle with cushioned grip
- Quick change knurled collar
- Length: 9" • 120VAC @ 60Hz

170587EX

192153EX

Includes: Power cord & ST3 tip (left)

Part No.	Prod. No.	Description	1	10
170587EX	WP25	25W solder iron	**$32.95**	**$31.35**
192102EX	WP35	35W solder iron	**39.95**	**35.95**
192153EX	PH25	Solder iron stand	**16.19**	**15.35**

Economical, High-Performance Soldering Irons

High-quality soldering irons that are suitable for both professional and do-it-yourself applications.

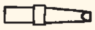
- 40W & 60W • Length: 9"
- 120VAC; 6' cord with 3-prong plug
- 226000EX (chisel, std.); 226018EX (conical, opt.) – tips for 224602EX
- 226026EX (chisel, std.); 226034EX (conical opt.) – tips for 195223EX

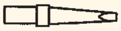
Part No.	Product No.	1	10
224602EX	200PHG-40W	**$9.95**	**$8.95**
195223EX	200PHG-60W	**13.95**	**12.49**
226000EX	44-240517	**.95**	**.85**
226018EX	44-240513	**.95**	**.85**
226026EX	44-240617	**1.95**	**1.79**
226034EX	44-240603	**1.95**	**1.79**

Weller Soldering Tips

Replacement Tips for WES51

- Tip leakage: less than 2mV
- Tip to ground resistance: less than 2Ω
- Tips also used with WCC100 station
- Additional tips can be special ordered


16774EX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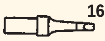
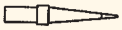
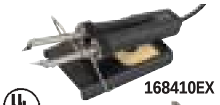

16803EX


16811EX

Part No.	Prod. No.	Description	1	10
16774EX	ETA	Screwdriver 1/16"	**$6.95**	**$6.25**
16782EX	ETJ	Long screwdriver 1/32"	**6.95**	**6.25**
16803EX	ETR	Narrow scrwdrvr 1/16"	**6.95**	**6.25**
16811EX	ETS	Long conical 1/64"	**6.95**	**6.25**

SMD Tweezer Iron

- Maximum efficiency ceramic heating elements insures rapid heat-up and instant heat recovery
- Max. temp.: 760˚F
- 120VAC
- Heater insulation exceeds 100MΩ
- Heater power consumption: 35W x 2


168410EX

168583EX

Includes: 0.095" tip

Part No.	Description	1	10
168410EX	Tweezer iron	**$59.95**	**$53.95**
168583EX	Tip .078"	**11.95**	**10.79**
168591EX	Tip .590"	**12.95**	**11.69**

Electric Desolder Pump

- Easily disassembled for cleaning
- One-hand operation
- Replacement tips available
- UL listed • Size: 10.5"L x1.0"Dia.

19254EX

Part No.	Description	1	10
19254EX	Electric desolder pump	**$26.95**	**$23.95**
19262EX	1 tip for 19254	**4.95**	**4.49**

One-Shot Desoldering Gun

This low maintenance desoldering gun with self-contained vacuum pump is perfect for desoldering through-hole components.

- Power consumption: 60W
- Interchangeable standard tips
- Zero static tip, 3 wire grounded
- Sensitive where CMOS protection is needed
- Quick release stainless solder collector
- Electronic temperature control • 120VAC
- Ergonomic, lightweight design • One-year warranty
- Gun casing size: 7.0"L x 4.0"W • Weight: 2.2 lbs.

Includes: 1.0mm tip

Part No.	Description	1	10
129066EX	Desolder gun	**$99.95**	**$89.95**
140214EX	“Y” replacement tip	**10.95**	**9.95**
134594EX	1.0mm replacement tip	**8.95**	**7.95**
134607EX	1.2mm replacement tip	**8.95**	**7.95**

PANAVISE Electronic Work Center

- Circuit board holder, standard base, tray base mount, solder station, sponges and wire holder included
- Size: 8.5"W x 7.8"H
- Weight: 5.3 lbs.
- One-year warranty

Part No.	Description	1	5	10
27060EX	Electronic center	**$74.95**	**$71.25**	**$66.95**

Third Hand

72864EX

- Frees hands for soldering
- Two adjustable arms with alligator clip jaws
- 2" diameter magnifying lens
- Quick and easy rotation
- Sturdy, heavy base
- Weight: P/N 26690EX: 0.7 lbs.; P/N 72864EX: 1.4 lbs.

Part No.	Description	1	10
26690EX	Third hand	**$5.95**	**$5.35**
72864EX	W/ soldering holder	**7.95**	**7.19**

WAHL® Cordless Soldering Iron

The #1 choice for field service soldering!

IsoTip® Power Pro Model #7904

- 900°F tip temperature
- LED indicator light
- Iron performance equivalentto 25-watt iron
- Solders 200+ joints or up to 30 minutes of continuous soldering

Includes: Soldering iron, recharging stand, NiCad battery pack, & tips

Part No.	Description	Weight	1	10
132783EX	Power Pro cordless iron	1.1 lbs.	**$61.95**	**$58.85**

Weller® Cordless Soldering Iron Kit

- Self igniting and instant heat
- Auto switch off
- Visible gas level
- 2 hours of heat on average tank setting

Includes: soldering tool, hot blower tip, hot knife tip, 2.4mm and 4.8mm double flat tip, cleaning sponge, storage case and instruction manual

Part No.	Prod. No	Description	Temperature	1	5
152207EX	PSI-100K	Tool kit	25W to 125W (adjustable)	**$79.95**	**$75.95**

Soldering Tip Cleaner with Stand and Rosin Paste Flux

156777EX

73584EX

156777EX:

- For cleaning soldering iron tips without the use of water and sponge
- Metal wool for cleaning
- Rubberized base for stability

73584EX:

- Highly active non-corrosive and non-conductive flux with excellent wetting action

Part No.	Description	1	10
156777EX	Tip cleaner & stand	**$4.95**	**$4.49**
160004EX	Metal wool replacement	**2.79**	**2.49**
73584EX	Rosin paste flux (2 oz.)	**1.99**	**1.89**

300-Watt Solder Pot

Temperature Regulated between 420 – 450°C

- HI/LO switch selectable for temperature
- 2 conductor power cord; 5' 9" long
- Holds up to one 1.1 lbs. solder bar
- Input voltage: 110VAC @ 2.7A; 50-60Hz
- Size: (unit) 4.8"H x 5.5" Dia. (base)
- Size: (tub) 2.4"Dia. x 1.6"D

Part No.	Description	1	10
160303EX	300W solder pot	**$64.95**	**$58.49**

Repair broken traces in 3 easy steps!

TECHSPRAY

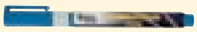
- Safe on plastics
- EPA SNAP approved, no CFCs or HCFCs

1. Flux Remover Pen

A unique combination of hydrocarbon solvents and alcohols makes it an excellent defluxer. This can also be used as an all-purpose cleaner for removal of light oils, silicones, waxes, greases, and similar contaminants.

Part No.	Product No.	1	12
263724EX	11.5 ml pen	**$6.19**	**$5.61**

2. Conductive Pen



Contains a fast drying, silver filled ink designed to quickly make highly conductive silver traces. Conductive pen repairs traces, makes smooth jumpers, links and shields components.

Part No.	Description	1	12
263716EX	4.89 ml pen	**$12.69**	**$12.05**

3. Overcoat Green Pen

Insulate printed circuit board traces and components against high voltage arcing and provide protection from moisture. Protects conductive pen traces and repairs permanent solder mask.

Part No.	Description	1	12
263732EX	5 ml pen	**$9.85**	**$9.36**

60-Watt Desoldering Station

- Simple fine tune feature to select within 300–850°F range
- Vacuum pump activated "on demand" using finger tip switch on desolder handle
- CMOS devices protected against voltage spikes
- Size: 9.2"L x 7.2"W x 3.6"H
- Weight: 13.1 lbs.

Includes: XYD12 tip and solder holder

Part No.	Product No.	Description	1	10
125508EX	968	Desoldering station	**$299.95**	**$269.99**
207271EX	TWZ60ESD	SMD tweezer iron with .078" tip	**69.95**	**62.95**
207221EX	D1A60A	Replacement desoldering iron	**74.95**	**67.49**
168583EX	46-060102	Tip .078" for P/N 207271EX	**11.95**	**10.79**
168591EX	46-060115	Tip .590" for P/N 207271EX	**12.95**	**11.69**
236460EX	78-744615	Replacement sponge for all stations	**2.99**	**2.69**

Special! 5% Bundle Savings

Complete ISO 9000 digital station
P/N 236101EX & 125508EX
Sold separately $409.90
Combined: P/N 207263EX $388.95

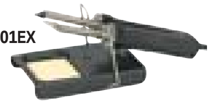
60-Watt Digital & Analog Display Soldering Stations

236101EX

Designed for soldering situations where precise temperature is required for sensitive components.

ESD Safe!

- Temperature is maintained at ±6°F
- External calibration port
- Electronic temperature control from 392° to 878°F
- CMOS devices protected against voltage spikes
- Power-on and heater-on LED indicators
- Size: 5.1"W x 8.0"D x 4.0"H
- Weight: 4.8 lbs.



168401EX

Includes: One 1/16" tip (P/N 35115EX – see web)

Part No.	Product No.	Description	1	10
236101EX	XY9-60D/ESD	Digital soldering station – ESD safe	**$109.95**	**$99.95**
168401EX	TWZ50ESD*	SMD tweezer iron w/ 0.078" tip	**79.95**	**71.95**
168583EX	46-060102	Tip .078" for P/N 168401EX	**11.95**	**10.79**
168591EX	46-060115	Tip .590" for P/N 168401EX	**12.95**	**11.69**
236460EX	78-744615	Replacement sponge for both stations	**2.99**	**2.69**

Rosin Core Solder Rolls and Pocket Packs

For general use in soldering electronic components. Composition varies from 60-40 tp 63-37.

141778EX

32117EX

170456EX

73576EX

* Organic core

Part No.	Mfr.	% Composition			Dia.	Wt.	Pricing	
		Tin	Lead	Silver	(In.)	(lbs.)	1	10
73576EX	Kester (pak)	60	40	0	.031	0.04	**$2.59**	**$2.35**
32117EX	Kester	60	40	0	.031	1.00	**13.19**	**11.89**
73605EX	Kester (pak)	62	36	2	.020	0.10	**1.75**	**1.49**
112344EX	Kester	63	37	0	.020	1.10	**17.95**	**16.19**
151474EX	Kester*	63	37	0	.031	1.00	**17.69**	**15.95**
170456EX	Golden	60	40	0	.031	0.06	**1.39**	**1.25**
141794EX	Super	60	40	0	.031	0.55	**5.95**	**5.39**
141786EX	Super	60	40	0	.031	1.10	**7.95**	**6.95**
141778EX	Super	60	40	0	.031	2.20	**13.95**	**12.95**

9-in-1 Multi-Tool

This multi-function stainless steel tool fits in the palm of your hand or slip into the provided sheath on your belt. Great gift for the handyman or sportsman.

- 2.75" closed
- 3.0 oz.

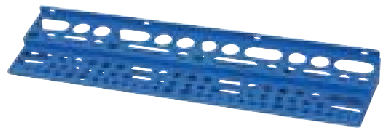
SALE

Includes: Spring loaded pliers, wire cutter, LED light, knife, bottle opener, metal file, nail pick, and both a Phillips and a flat head screwdriver.

Multi-tool folded

Part No.	Description	Price
227264EX	9-in-1 multi tool	$6.29

Multi-Tool Storage Rack



Organize and store 106 of the most common tools in 24" of wall space. Made of durable plastic material, it easily mounts on a wall with the screws that are included.

Part No.	Description	1	4
239353EX	Multi-tool storage rack	$5.99	$5.49

We're always looking for suggestions and feedback about the products we are offering in our catalog and on our website. ***Send your comments to:*** **AtHome@Jameco.com**

3X Flexible Neck Magnifier

Never squint again on small fine prints or have a hard time holding a magnifying glass at the same time holding two other tools with only two hands. Just simply clamp the magnifying lens on to a table or workbench and adjust the flexible gooseneck into position.

- 3.5" diameter and 3x diopter lens
- Arm length: 20"

Part No.	Description	Price
239548EX	Flexible neck magnifier	$12.99

Standard Adjustable 3X Magnifying Lamp

- 4" Diameter lens
- Maneuverable 30" arm extension
- Lamp tilts or turns in any direction
- Uses 60W incandescent bulb (not included)
- Power requirement: 110VAC/60Hz

Part No.	Description	Price
22710EX	Magnifying lamp	$26.49

3X Magnifying Lamps

- 45" extension arm
- Supplied with 22-watt Circuline tube
- Extra strong, all-metal mounting base with electrical outlet
- New wire clip design permits easy installation
- Power requirement: 110VAC/60Hz

Part No.	Description	Price
100829EX	Black lamp	$59.95
149981EX	White lamp	59.95

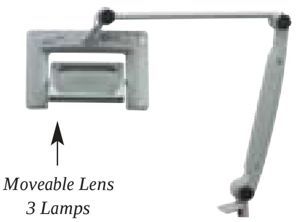
Precision 5X Magnifying Lamp

With an arm that extends to 40" long, adjustable to any direction or angle, and 5" diameter, 5X magnifying glass with built-in light, this is the perfect tool to help identify small electronic components and for soldering.

Includes: 22W circuline fluorescent bulb

Part No.	Description	Power Requirement	Weight	Price
197456EX	Magnifying lamp	110VAC/60Hz	7.1 lbs.	$109.95

Adjustable or Fixed Lamps Illuminate & Magnify 3X



Moveable Lens

3 Lamps

Need a flexible magnifying solution at a terrific price? Our adjustable rectangular 3-diopter 7.0"x 4.5" diameter lens allows the magnifier independent movement from the light for best viewing angles. On-off buttons control the top and side lights separately, allowing varying light intensity.

Part No.	Description	Price
217517EX	Adjustable magnifying lamp	$79.95

Kwik Change Tool/Parts Tote

Versatile storage tote for organized storage space. Front drop panel reveals four slide-out storage boxes and comes with two interchangeable racks and one double deep rack. Bulk storage beneath lid for larger tools and exterior rack for small tool storage. Ruler on front for added convenience.

- Size: 20.5"H x 12"W x 14.5"D

Part No.	Description	Price
261892EX	Tool/parts tote	$49.85

Can't find what you're looking for? Log on for more @ www.Jameco.com.

Super-bright, waterproof and shockproof LED flashlight.

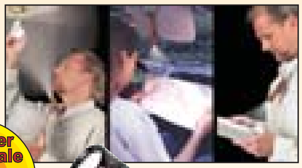
Super bright white LEDs have a life of at least 11 years of continuous use. This heavy-duty flashlight is waterproof and designed for all weather conditions. It's shockproof casing was built to withstand a drop from 4'. LED flashlights have a low cost per hour of operation because batteries last 14 times longer than in conventional flashlights. The 10-LED flashlight lasts a month of continuous use on three "D" cell batteries. The 7-LED flashlight uses 3 "C" cell batteries and lasts 25-days of continuous use. The 4-LED model lasts 14-days of continuous operation using three "AA" cell batteries.

Part No.	Description	Price
215677EX	10-LED 10.6" Flashlight	$63.95
215685EX	7-LED 8.9" Flashlight	53.95
215693EX	4-LED 7.9" Flashlight	33.95

Make your Maglite® 100 times more useful!

These handy helpers are just the thing to make your Maglite® hands-free! Now you can easily direct the powerful Maglite® beam of light right where you need it! Just position your little "friend" using super-flexible legs, and a strong beam illuminates your projects, comfortably and reliably. No more balancing acts, no more "mouthlights!" Two models come complete with Maglites®, either in AA or AAA sizes. The other two areready to convert your existing mini-flashlights into useful, versatile workbench buddies.

Summer Sale 20% OFF



Hang them, hook them, stand them; the possibilities are endless!

Part No.	Description	Price
239880EX	Flashlight Friend® with AA Maglite®	$15.99
239898EX	Flashlight Friend® with AAA Maglite®	11.99
239901EX	Flashlight Friend® for existing AA flashlights	6.35
239919EX	Flashlight Friend® for existing AAA flashlights	3.95

Summer Sale
Up to 20% OFF

COLOR CODE LEGEND...
NEW SALE REFURBISHED CLOSEOUT

20% OFF all NITE IZE™
Accessories on pages 51&52
Offer expires 8/14/04

Attached strap ensures a secure grip!

GRIP 'N CLIP
FLASHLIGHT ACCESSORY

Make all your trusty flashlights even better!

Enclose your Maglite® flashlights in these indispensable carriers and they'll automatically become twice as useful. A neoprene sheath protects your hands from that chilly aluminum shaft in the wintertime, and a strap secures your grip. Plus, a belt-clip keeps the flashlight at your side for instant access, and frees your hand when the light isn't needed. Available in C, D, and AA sizes to fit all the Maglite® flashlights in your home and shop.

Part No.	Description	Price
239994EX	Grip 'N Clip carrier for most AA flashlights	$3.95
239986EX	Grip 'N Clip carrier for most C flashlights	7.15
239978EX	Grip 'N Clip carrier for most D flashlights	7.15

Keep your flashlight always ready, and hands-free!

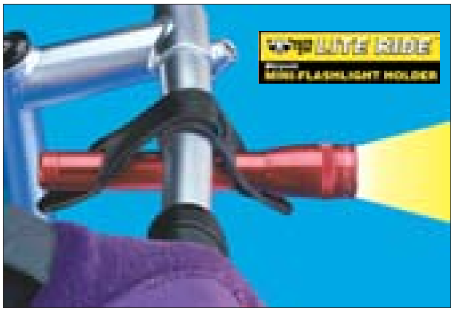
The Lite-Lok would be useful enough as a tough, wall- or belt-mountable flashlight holster. But there's more! Clip the flashlight on your belt and lock it into one of eight positions for a "third hand" when working in dark areas. The AA version comes with a tough Mini-Maglite®, and the C and D models fit most standard Maglite® flashlights in those sizes. You'll be glad you've got this helping hand!

Part No.	Description	Price
240004EX	Lite-Lok with mini AA flashlight	$15.95
240012EX	Lite-Lok for most C flashlights	15.15
240021EX	Lite-Lok for most D flashlights	15.15

Perfect for close work: Light right where you need it!

We've all been in a three-hands-needed situation where a flashlight in the mouth is the only solution. That is, until now. This hands-free holder lets you comfortably hold your own Mini-Maglite® (not included) in the perfect position. Made from FDA approved plastic and equipped with a neck cord to keep it handy.

Part No.	Description	Price
240080EX	Lite-Bite mini flashlight holder	$2.35



Add "night vision" instantly!

Unlike other add-on lights, the Lite-Ride installs in a snap and aims the light right where you want it! Your Mini-Maglite® (flashlight not included) becomes a versatile shock-absorbed head or tail-light in seconds, increasing safety and extending play hours. UV resistant and weatherproof, you'll want one or two for all of your bikes and scooters!

Part No.	Description	Price
240071EX	Lite-Ride for bicycles or scooters	$4.75

All these and more products available on our website. Log on today @ www.Jameco.com

Bend light, Illuminates those impossible-to-reach places!

For close work in confined areas, now you can twist and shape your light to reach where no beam has gone before! No more wrestling and squinting; these precision adaptors turn your Maglite® AA and AAA flashlights into a go-where-you-need-it lighting system. Perfect for kit-builders, maintenance work, any application where light is needed in hard-to-access places. Just choose the length (4.5" to 20") and size that's right for you.

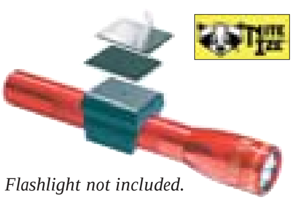
Part No.	Description	Price
239927EX	7" adapter with AA flashlight	$15.95
239943EX	7" adapter for most AA flashlights	5.55
239951EX	4.5" adapter for AAA flashlights	4.75
239960EX	20" adapter for AA flashlights	7.95
239935EX	20" adapter for AAA flashlights	7.95

Hands-free light, right where you are looking!

These adjustable, one-size-fits-all headbands make lighting your work a breeze. For an all-in-one solution, choose the band complete with a powerful, adjustable Mini-Maglite® (P/N 240047EX). If you want to equip your own mini-flashlight for hands-free use, order P/N 240055EX. Either way, you'll get a multipurpose, comfortable hands-free helper.

Part No.	Description	Price
240047EX	Mini-Maglite® (requires 4 AA batteries)	$15.95
240055EX	Headband for most AA flashlights	5.55

Make any mini flashlight more versatile magnetically.



Flashlight not included.

With hook-and-loop ease, your mini flashlight can now "get a grip" on your refrigerator, in your car, on your metal worktable, or any other ferrous metal surface. This clip's powerful magnet will hold it for you, right where you need it.

Part No.	Description	Price
240063EX	Magnetic AA flashlight clip	$3.15

Non-Insulated Terminal D-Sub Crimping Tool

14-26 AWG

- Metal crimping tool with cutter and insulated handles
- For computer pins, sockets and D-sub 26-28 AWG wire
- For butt-insulated connectors, 22-26 AWG wire • Coiled spring return
- For telephone spade lugs, 22-26 AWG wire
- For non-insulated connectors, 20-22 AWG wire
- For non-insulated connectors, 14-18 AWG wire

Part No.	Product No.	1	10
99442EX	HT202A	$9.49	$8.55

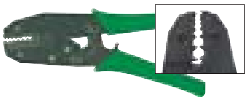
D-Sub Crimping Tool

20-28 AWG

- Crimps D-sub pins and sockets
- Size: 7.0"L x 4.0"W

Part No.	Product No.	1	10
159265EX	HT213	$10.95	$9.89

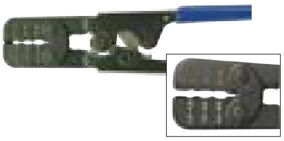
Ratcheted BNC Crimping Tool



- Crimps RG58, RG59, RG62, RG174 and fiber optic
- All steel construction

Part No.	Product No.	1	10
114534EX	HT-3019	$23.95	$21.59

Terminal Wire Crimping Tool



- Crimps solderless terminals: 18-22 AWG red, 14-16 AWG blue and 10-12 AWG yellow
- Size: 9.0"L x 2.0"W

Part No.	Mfr. Cross Ref. No.	1	10
72995EX	HT303	$18.95	$17.06

IDC Connector Crimping Tool

- Crimping distance: 27.5mm to 6mm (with attachment)
- Cushioned red handles
- Crimp insulation displacement connectors
- Use for IDC socket connectors, pg 39

Part No.	Product No.	Size	1	10
73251EX	HT214	9.2"L x 3.0"W	$15.95	$14.39

Hex Crimp Tools

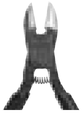
- Use with RG-58 and RG-59 connectors with up to a 3/8" ferrule

261745EX: 1.7mm standard crimp for crimping center conductor on BNC & TNC connectors; up to 3/8" ferrule

261737EX: Ferrules up to 1/2"

Part No.	Description	Price
261745EX	Hex crimp tool, 3/8"	$19.75
261737EX	Hex crimp tool, 1/2"	19.49

5" Cutting Pliers

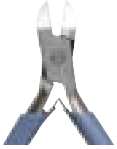


Recommended for cutting copper and soft lead wires. Ideal for precise circuit board work.

Part No.	Description	1	5
261809EX	Cutting pliers	$4.99	$4.55

Cutting Pliers

Flush Cut

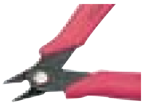


- Stainless steel
- Side cutting flush cut
- Leaf spring for smooth controlled action

Part No.	Description	Price
261788EX	Cutting pliers	$6.95

Xcelite

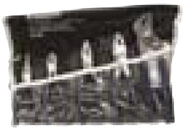
Wire Cutter



- Spring return
- Micro series wire cutter – flush; 6"

Part No.	Product No.	1	10
146712EX	170M	$5.75	$5.19

5-Piece Pliers Set



- Precision machined heat-treated jaws
- Vinyl insulated handles

Includes: 6.5" needle nose; 7.5" lineman's; 8" slip joint; 8" groove joint & cutting pliers

Part No.	Description	1	5
261905EX	Pliers set	$9.75	$9.25

5" Wire Cutter/Stripper

- Insulated handles
- Spring return
- Tempered steel cutting edge
- Adjustment for wire gauges
- For 10-30 AWG wire

Part No.	Mfr. Cross Ref. No.	Size	1	10
78991EX	HT108	5.0"L x 3.0"W	$3.95	$3.49

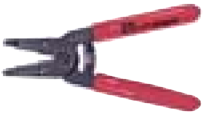
Automatic Wire Stripper

- Strips 8-22 AWG wires
- Spring load grip
- Size: 7.0"L x 2.5"W
- Weight: 0.8 lbs.

Includes: Wire stopper for desired strip length

Part No.	Description	1	10
175097EX	Auto wire stripper	$16.95	$15.26

6" Premium T6 Wire Stripper



- Contoured cushion-grip handles
- Wire size markings, in AWG and mm
- 16-26 AWG stranded
- Size: 6.0"L x 2.0"W

Part No.	Product No.	Description	1	10
161234EX	ID45-216	T-6 16-26 AWG	$16.95	$15.26

Rotary Coax Cable Strippers

2 and 3 Blade

159118EX (3 Blade):
2 settings RG58/59/62

- For cable sizes 4-10mm
- Size: 4.2"L x 1.3"W • Color: black

159185EX (2 Blade):
4 settings RG58/59/62/174

- For cable sizes 4-12mm
- Size: 3.9"L x 0.7"W • Color: gray

Includes: Hex key wrench for adjusting blade

Part No.	Product No.	1	10
159118EX	HT312B (3 blade)	$13.95	$12.56
159185EX	HT332D (2 blade)	13.95	12.56

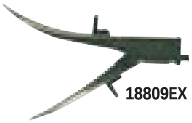
Strip-Wrap-Unwrap Tool

34585EX

- Tool tip made of tempered steel
- Spring steel cutter
- Use with 30 AWG wire on .025" square posts
- No solder necessary, see pg 43 for wire
- Wrap 1 to 2 turns of insulated portion of wire for secure connections • Modified tool • 4.5" long

Part No.	Mfr. Cross Ref. No.	1	10
34585EX	WSU30M	$49.99	$44.99
236785EX	HSR30	29.95	26.95

Nibbling Tool

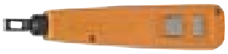


18809EX

- Perfect for cutting, trimming, or notching sheet metal up to 18 AWG
- Time-saver when working on prototyping, chassis, and circuit boards
- Minimum .375" hole required • Size: 7.8"L

Part No.	Prod. No.	Description	1	10
18809EX	HT204	Nibbling tool	$7.95	$7.16
29330EX	HT204B	Replacement bit	4.49	4.04

Impact Punch-Down Tool



175071EX

- Reversible clip-in blade
- Adjustable (HI-LO) spring-loaded impact mechanism
- Storage bin on handle for spare blade

175071EX:

Punch-down tool with blade

- For 66-type terminals
- Size: 5.2"L x 1.5"W x 1.0"H

175089EX

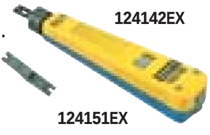
175089EX:

Punch-down blade

- Blade for 110-type terminals

Part No.	Description	1	10
175071EX	Tool w/ 66 blade	$34.95	$31.46
175089EX	Punch-down blade 110	14.95	13.49

Impact Punch-Down Tool



124142EX

124151EX

Conforms to AT&T performance specification. Reversible clip-in blade, adjustable spring-loaded impact mechanism and spare storage blade in the handle.

Paladin Tools®

- For 66-type bifurcated terminals
- Size: 7.0"L x 1.4"W x 1.1"H

SALE

Part No.	Description	1	10
124142EX	Tool with blade	$49.35	$45.00
124151EX	#110 bl ade	19.95	17.95

D-Sub Pin Insertion/ Extraction Tool

- Material: Red/white plastic body • Exchangeable tips

Part No.	Description	1	10
19094EX	Insertion/extraction tool	$2.79	$2.49

More Tools @ www.Jameco.com.

Aerospace-designed wrench works in half the space of others!

These wrenches, developed for the aerospace industry, ratchet in just 30° of space – *half* the space of other open-end wrenches. They are made of solid 17-4 stainless tool steel, so they can't flake or chip like chrome-plated tools. The SAE set fits 3/8"-7/8", 1/2"-9/16", 5/8"-11/16". The metric set fits 10-12, 13-14, 15-17. They're so indestructible, AldenWrench guarantees them for life!

With a ratcheting angle of just 30°, these wrenches work where others don't. Why didn't someone think of it sooner?

Part No.	Description	Price
223896EX	3-piece wrench set (SAE)	$34.95
223909EX	3-piece wrench set (metric) *Was ~~$34.95~~*	31.95

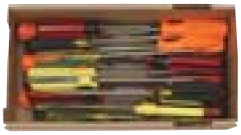
7-Piece Insulated Screwdriver Set

- Tapered handle for sure grip
- Precision ground shank
- Hardened, magnetic tips

Includes: 0.4/0.8/1.0/1.2mm slotted; #0/1/2 Phillips

Part No.	Description	1	5
261999EX	Screwdriver set	$19.25	$17.59

25-Piece Assorted Screwdriver Grab Bag



25 assorted sizes and types of screwdrivers in a box. Types may include slotted, Phillips, Torx or star.

Part No.	Description	1	10
235070EX	Assorted screwdrivers	$15.99	$14.99

25-Piece Hex Key Set

- 12-piece SAE long arm with sizes from 1/16" to 3/8"
- 13-piece Metric short arm with sizes from 1.5mm to 1cm

Includes: vinyl pouch

Part No.	Description	1	5
261825EX	Hex key set	$6.95	$6.59

7-Piece Nut Driver Sets

- Premium hardened steel sockets
- Large colored handles

261850EX: Metric 5mm, 6mm, 7mm, 8mm, 9mm, 10mm & 11mm
261841EX: SAE 3/16", 1/4", 5/16", 11/32", 3/8", 7/16", 1/2"

Part No.	Description	1	5
261850EX	Metric nut driver set	$8.99	$8.65
261841EX	SAE nut driver set	9.89	9.49

Security bits to bypass those bizarre screwheads.

This security bit set contains most of the bits commonly used in today's electronic products to make them tamper resistant. Now you can open the cases of these products to repair them without damaging the case or screw.

Includes: Torx bits: #6, #8 and #10; Tri-wing bits: #1, #2, #3 and #4; Security hex bits: 5/64", 3/32", 7/64", 1/8", 9/64", 5/32" 3/16" and 1/4"; Security Torx bits: T8, T10, T15, T20, T25, T27, T30, T35 and T40; Spanner bits: 4, 6, 8 and 10mm; Phillips bits: #1, #2, #3 and #4; and 60mm magnetic bit extension that fits 1/4" hex driver

Part No.	Description	1	10
223829EX	32-piece tool kit	$11.95	$10.75

High Speed Steel Step Drills

Drill multiple holes in thin material with the same bit, faster and easier. You can drill holes in most materials such as plastic, metal, and wood up to 1/8" thick. No center punching on most sizes. Made of high-speed steel.

Part No.	Description	Size	1	10
229657EX	Step drill	3/16" to 7/8" 13-step	$14.95	$13.45
172401EX	Step drill	3/16" to 1/2" 6-step	9.95	8.95

Heavy-Duty Tool/ Equipment Case

Made of lightweight aluminum, this tool case is designed to take rough field use. Case includes tool pallet, egg carton foam lid, and 2.5" thick pre-cut foam bottom. Ideal for carrying fragile instruments, test equipment, and small hand tools.

- Size: 19"L x 14"W x 6"D

Part No.	Description	Price
261876EX	Tool/equipment case	$51.39

Spring-hook set makes the job faster and easier.

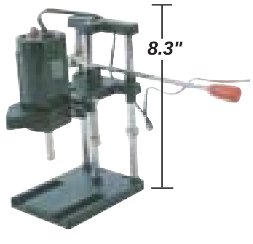
Each end has a unique point to fit the right situation and position.

Grab or place in position springs and wires in those hard-to-reach areas with these 8" long spring-hook tools.

Part No.	Description	1	5
226042EX	Spring-hook set	$5.95	$5.69

Mini-Drill and Stand

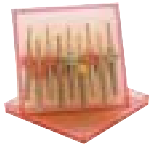
This Mini Drill is excellent for drilling through circuit boards and protoboards. The drill comes with an array of drilling, grinding and sanding attachments. Drill stand is designed to function like a drill press.



Shown w/ drill (26702EX) & stand (26711EX)

Part No.	Description	Wt. (lbs.)	1	10
26702EX	MS398 drill	0.8	$29.95	$26.95
26711EX	MS399 stand	1.8	19.95	17.95

9-Piece Assorted Drill Bit Kit

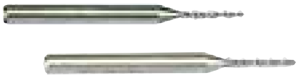


- Variety of sizes: .014" to .126"
- Each kit will vary in contents of bit sizes
- Shank diameter: .125"

Includes: Plastic case

Part No.	Description	1	10
131676EX	9-piece drill bit kit	$9.95	$8.95

PC Board Drill Bits



SALE

- Reconditioned carbon steel bits
- High quality long lasting cutting edge
- Shank diameter: .125"
- Use for drilling holes in glass PC boards

Part No.	Drill Dia.	No.	Application	1	10
16619EX	.021"	75	Miscellaneous	$1.49	$1.34
16580EX	.040"	59	Plated thru holes	1.59	1.43

Variable High-Speed Rotary Tool Kit

A multiple high-speed rotary tool kit with 6-speed selections ranging from 8,000 to 30,000 RPM, along with 40 bits and accessories, provides you all the power and precision you need to tackle almost any cutting, drilling, polishing, sanding or engraving job. With its high-speed output, plus a nylon body, you can grasp the tool lightly to perform fast rough work or delicate craftsmanship. A convenient shaft-lock button provides fast-and-easy accessory bit changing.

- 9" long variable-speed rotary tool
- Drum sander wheel
- 2 felt buffing pads
- Disk sanding arbor
- 7 disk grinders
- 4 rotary files
- 3 drum sander pads
- Grinder dressing stone
- 6 disk sanding pads
- 10 rotary grinders
- 2 drill bits
- Wrench
- One-year manufacturer's warranty

Part No.	Description	1	5
211289EX	Rotary tool kit	$44.95	$42.95

A great bargain 2000-count multimeter for just $15.49

A full-featured multimeter with the basic functions needed for testing electronic equipment.

Compared to simpler models this DMM features:

- Greater resolution: 100uV max.
- Large 0.6" LCD backlit dispaly
- 7 function / 17 ranges
- Data hold switch, backlight button
- Transistor h_{FE} test
- **DC voltage ranges:** 200mV – 600V
- **AC voltage ranges:** 200V – 600V
- **DC current ranges:** 200uA – 10A
- **Resistance ranges:** 200Ω – 2MΩ
- Size: 5.4"H x 2.7"W x 1.2"D

GREAT Buy!

Part No.	Description	Price
220759EX	Meter w/ diode & h_{FE} test	$15.49

2000-Count Pocket Multimeter

- **DC voltage ranges:** 200mV, 2V, 20V, 200V, 1000V
- **AC voltage ranges:** 200V, 750V
- **DC current ranges:** 200µA, 2mA, 20mA, 200mA, 10A
- **Resistance ranges:** 200Ω, 2kΩ, 20kΩ, 200kΩ, 2MΩ
- Diode and transistor tests
- 0.5" digit height • Removable test leads
- Size: 2.6"W x 1.0"D x 4.8"H

Includes: 9V battery

Part No.	Description	Price
119212EX	Pocket multimeter	$19.95

2000-Count Multimeter

0.5" Digit Height • LCD Readout

- Resolution: 100µV maximum
- **DC voltage ranges:** 200mV – 100V
- **AC voltage ranges:** 200mV – 750V
- **DC/AC current ranges:** 20µA – 20A
- **Resistance ranges:** 200Ω – 20MΩ
- Auto zeroing
- Input impedance: 10MΩ
- Overload protection: 1000VDC/750VAC

Includes: Probes, carrying case, manual & 9V battery

Part No.	Product No.	Price
27115EX	M3800	$39.95

2000-Count Multimeter

With Temperature & Frequency Measurement

- $3\frac{1}{2}$-digit LCD (1.0" digit height)
- Resolution: 100µV maximum
- **DC voltage ranges:** 200mV – 1000V
- **AC voltage ranges:** 200mV – 700V
- **DC/AC current ranges:** 200µA – 10A
- **Resistance ranges:** 200Ω – 200MΩ
- **Capacitance ranges:** 2nF – 20µF
- **Frequency:** 20kHz • Wt.: 1.6 lbs.
- **Temperature range:** -20°C – 1000°C
- Diode, transistor and continuity testing
- Data hold switch • Size: 4.0"W x 2.0"D x 8.0"H

Incudes: Manual, probes, and 9V battery

Part No.	Mfr. Cross Ref. No.	Price
177480EX	AEEC2890	$49.95

Digital Multimeter Quick Selection Guide

All have VDC, VAC, Resistance and Current

* See indicated page for more details on each product

Handheld & Bench-Type Digital Multimeters

			Features				Standard Functions				Special Functions						
Part No.	**Best Sellers**	**Manufacturer No.**	*** Page**	**Display Count**	**Analog Bargraph**	**RS-232 PC Interface**	**Autorange**	**True RMS**	**Capacitance**	**Inductance**	**Frequency**	**Temperature**	**Diode Test**	**Logic Test**	**Continuity Test**	**Transistor h_{FE} Test**	**Price**
220855EX	✓	M83013	Below	2000									✓		✓	✓	$9.95
27115EX	✓	Metex M3800	Below	2000									✓		✓	✓	39.95
119212EX	✓	JE110	Below	2000									✓			✓	19.95
220759EX		Mastech MAS830L	Left	2000									✓		✓	✓	15.49
177480EX	✓	AEEC2890	Below	2000					✓		✓	✓	✓		✓	✓	49.95
211650EX		Extech MN26	Below	4000			✓		✓		✓	✓	✓		✓		39.95
137461EX	✓	Metex M3860D	Below	4000	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	149.95
136590EX	✓	Mastech MY65	Below	20,000					✓		✓				✓	✓	73.49
185201EX		B&K BK5380	Below	50,000	✓		✓	✓	✓		✓		✓		✓		149.99
203801EX		8012A*	56	2,000													199.95
230586EX		B940*	56	4,000		✓	✓	✓	✓		✓		✓		✓		148.95
166852EX		Metex MXD4660A*	56	20,000	✓	✓		✓			✓		✓	✓	✓	✓	249.95

*Benchtop multimeter

Extremely Low Cost 7-Function 2000-Count Multimeter

- $3\frac{1}{2}$-digit LCD display (0.5" digit height)
- Resolution: 100µV maximum
- **DC voltage ranges:** 200mV – 500V
- **AC voltage ranges:** up to 500V
- **DC current ranges:** 200µA – 10A
- **Resistance ranges:** 200Ω – 2000kΩ
- Diode, continuity and transistor h_{FE} test
- Size: 2.7"W x 1.0"D x 5.0"H

Part No.	Product No.	1	10	25
220855EX	M830B	$9.95	$9.45	$8.99

2000-Count Digital LCR Meter

- **Inductance ranges:** 200µH to 200H
- **Capacitance ranges:** 200pF to 2000µF
- **Resistance ranges:** 2mΩ to 20MΩ
- Dissipation factor measurement
- Size: 6.7"L x 3.3"W x 1.4"D
- One-year warranty

Includes: Test leads and 9V battery

Part No.	Description	Price
127538EX	LCR meter	$149.95

Our Lowest-Priced 20,000-Count Multimeter

- Extra-large digits (0.8" digit height)
- Resolution: 10µV maximum
- **DC voltage ranges:** 200mV – 1000V
- **AC voltage ranges:** 2V – 700V
- **DC/AC current ranges:** 2mA – 10mA
- **Resistance ranges:** 200Ω – 200MΩ
- **Capacitance ranges:** 200pF – 20µF
- Measures transistor h_{FE} & continuity
- Hold button
- Auto power off
- CE approved

Includes: Boot, 9V battery, probes & manual

Part No.	Product No.	Price
136590EX	MY65	$73.49

More @ www.Jameco.com

4000-Count, 11-Function Multimeter with Autorange

- 4000-count large LCD display
- Auto ranging with manual override
- Resolution: 0.1mV max.
- **AC/DC voltage ranges:** 400mV – 600V
- **AC/DC current ranges:** 400µA – 10A
- **Resistance ranges:** 400Ω – 40MΩ
- **Capacitance ranges:** 4nF – 200µF
- **Frequency ranges:** 10Hz – 10MHz
- **Temperature ranges:** 0°F – 1400°F (0°C – 760°C)
- Diode test, duty cycle and continuity
- Relative zero, data hold, range hold, auto off

Includes: Protective holster with stand, two 1.5V AAA batteries and test leads

Part No.	Description	Price
211650EX	Multimeter	$39.95

4000-Count Multimeter with RS-232, Dual Display & Inductance

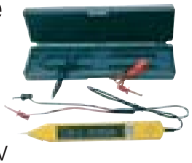
True RMS

- Dual displays for comparative measurements
- $3\frac{3}{4}$-digit LCD ($\frac{5}{8}$" digit height)
- Resolution: 100µV maximum
- **DC voltage ranges:** 400mV – 1000V
- **AC voltage ranges:** 400mV – 750V
- **DC/AC current ranges:** 400µA – 20A
- **Resistance ranges:** 400Ω – 40MΩ
- **Temp.:** -40°C to +1200°C; 1°C res.
- Measures inductance, capacitance, transistor h_{FE} and frequency
- Autoranging all measurement settings

Includes: 9V battery, software and cable

Part No.	Product No.	Price
137461EX	M3860D	$149.95

17MHz Logic Probe



- Max input frequency: 17MHz
- Minimum pulse width: 30ns
- Input impedance: 1MΩ
- Pulse flash time: 500ms
- Audible tones for high and low
- Power supply protection: ±20V
- TTL threshold: (Lo) 0.8V ±0.2V, (Hi) 2.3V ±0.2V
- CMOS threshold: (Lo) 30% VCC, (Hi) 70% VCC

Part No.	Description	Price
149930EX	Logic probe	$29.95

50,000-Count Digital Multimeter with Analog Bar Graph

SALE

- True RMS reading
- 0.55" digit height
- Auto and manual ranging
- AC/DC voltage protection
- Continuity and diode testing
- Basic DC accuracy: BK5380 – 0.025%
- **DC voltage:** 500mV to 1000V (10uV to 100mV resolution)
- **Resistance:** 500Ω-50MΩ (10mΩ-1kΩ)
- **Frequency:** 0.6Hz – 500kHz
- **Capacitance:** 50nF – 50mF (10pF – 10μF res.)

Includes: Probes and manual

Part No.	Product No.	Price
185201EX	BK5380	$149.99

2000-Count Multimeter

The Fluke 8012A is a portable, bench-type, digital multimeter with 3½ digit liquid crystal display(LCD).

- Resolution: 100μV maximum
- **DC voltage ranges:** 200mV – 1000V
- **AC voltage ranges:** 200mV – 700V
- **DC/AC current ranges:** 20μA – 2A
- **Resistance ranges:** 2Ω – 20Ω (low range) 200Ω – 20MΩ
- **Conductance ranges:** 2μS – 200nS
- Size: 7.5"W x 9.6"D x 2.5"H
- Weight: 2.6 lbs. † Refurbished

Part No.	Product No.	Price
203801EX	8012A†	$199.95

4000-Count True RMS Benchtop Multimeter with RS-232

- 9 functions, 32 ranges
- 3¾-digit backlit LCD display with bargraph
- Auto/manual ranging
- True RMS AC volts and amps
- Resolution: 100μV maximum
- **DC voltage ranges:** 400mV – 1000V (0.3% accuracy)
- **AC voltage ranges:** 4V – 750V
- **DC/AC current ranges:** 4mA – 10A
- **Resistance ranges:** 400Ω – 40MΩ
- **Capacitance ranges:** 4nF – 40μF
- **Frequency ranges:** 100Hz – 600kHz
- Diode and continuity test • Delay hold mode
- Min., max., and relative hold function
- Input voltage: 9V battery or 90-132VAC/ 198-264VAC @ 50-60Hz
- Size: 9.0"W x 9.4"D x 3.3"H
- Weight: 3.3 lbs.
- Two-year warranty

Includes: Manual, test leads, power adapter, 9V battery, RS-232 cable and software (98/ME/2000/XP compatible)

Part No.	Product No.	1	5
230586EX	B940	$148.95	$141.55

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20,000-Count Benchtop Multimeter w/ RS-232, Analog Bar & 4 Displays

- Automatic polarity indicator
- 1-2 readings per second
- DC accuracy: 0.1% +5 digits
- 10 reading storage & compare
- Resolution: 10μV maximum
- **DC voltage ranges:** 200mV – 1000V
- **AC voltage ranges:** 200mV – 750V
- **DC/AC current ranges:** 2mA – 20A
- **Resistance ranges:** 200Ω – 20MΩ
- **Frequency ranges:** 20kHz – 20MHz
- MIN., MAX., AVE., relative functions
- Logic, diode, transistor h_{FE} and continuity test

Includes: Manual, power cable, probes and software

Part No.	Product No.	Price
166852EX	MXD4660A	$249.95

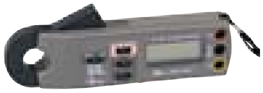
Passive Component LCR Meter

- Measures L, C, and R with secondary parameter Q, D or R; both are displayed
- Accuracy of 0.7% for L & C, 0.5% for R
- **Inductance ranges:** 2000.0μH to 2000.0H
- **Capacitance ranges:** 2000.0pF to 2000.0μF
- **Resistance ranges:** 20.000Ω to 20.000MΩ
- Test frequencies of 120Hz and 1kHz
- Quality (Q) reading: 0 to 9999
- Dissipation Factor (D) (with C) reading: 0 to 0.9999
- Selectable parallel or series equivalent circuit
- Set HI/LO limits, absolute or percentage
- Bidirectional RS-232 port with optional software
- Max./Min./Avg. recording with auto power off

Includes: Leads, alligator clips, 9V battery & holster

Part No.	Description	Price
198678EX	LCR Meter	$178.95

Mini DC/AC Current Clamp Meter/Multimeter



- Bright 1/2" LCD display with DATA HOLD
- 0.5" digit height
- Size: 7.1"L x 1.9"W x 1.4"H

Requires: 9V battery not included (P/N 151095EX, pg 30)

ACA*	20A, 200A	±1.2% + 5d
DCA	200A	±1.2% + 5d
ACV*	500V	±1.0% + 2d
DCV	200V	±0.8% + 1d
Resistance	200Ω	±1.2% + 1d
*Freq.Response	40-400Hz	
Zero Adjust	External knob for DCA	

Includes: Test leads, manual and case

Part No.	Description	Price
115756EX	Mini DC/AC clamp meter	$119.95

150kHz Sine/Square-Wave Audio Generator

Small and convenient, this audio generator can be used to test telco and audio equipment.

- 20Hz to 150kHz in 46 steps
- Low distortion R-C oscillator
- Variable output control
- Size: 5.9"L x 3.2"W x 0.8"H
- Output Impedance: 600Ω

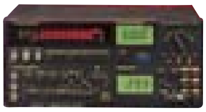
Includes: 9VDC battery

Part No.	Prod.No.	Description	Price
166334EX	BK3001	Audio generator	$78.95

Same Day Shipping and Always in Stock

4-in-1 Universal System

With Function Generator, Universal Counter, DC Power Supply & Digital Multimeter



Less Bench Space– Great Convenience

- Generate 7 forms of waves in 7 frequency ranges from 0.2Hz to 2MHz
- Measure frequency ranges from 5Hz to 1.3GHz
- Generate 5V @ 2A, 15V @ 1A fixed and 0 to 30V @ 0 to 2A variable
- Ranges: DC voltage (400mV to 100V), AC voltage (400mV to 750V), DC/AC current (40mA to 20A), resistance (400Ω to 40MΩ), capacitance (4nF to 400μF) and forward resistance of a semi-conductor junction in kΩ
- Size: 14.5"W x 14.0"D x 7.0"H • Weight: 37 lbs.

Includes: Manual, cables and software

Part No.	Product No.	Price
160864EX	MS9150	$549.95

2MHz Function Generator and 2.7GHz Frequency Counter

Function Generator: (2Hz - 2MHz)

- Wave forms: sine, square, triangle, skewed, ramp, pulse & TTL level square
- Frequency: 2Hz to 2MHz in 7 ranges
- Output impedance: 50Ω ±10%
- Output amplitude: 2 to 20Vpp at open load; 1 to 10Vpp at 50Ω load
- Offset variable range (max.): ±10VDC at open load
- Frequency sweep time: 20ms to 2s

Frequency Counter: (5Hz - 2.7GHz)

- Measuring range: channel A: 1Hz to 20MHz; channel B: 20MHz to 2.7GHz
- Input sensitivity: channel A: 20mVRMS sinewave or 100mVp-p; channel B: 40mVRMS for 20MHz to 1.3GHz; 70mVRMS for 1.3GHz to 2.7GHz
- Max. input voltage: channel A: 35Vp-p; channel B: 3Vp-p
- Input impedance: channel A, 1MΩ; channel B, 50Ω
- Data logging and graphic software

Includes: Coax & power cable, manual, serial cable and software

Part No.	Description	Price
192671EX	Function generator/counter	$319.95

2MHz Function Generator

- Frequency range: 0.02Hz to 2MHz
- Waveforms: sine, triangle, square, ramp, TTL pulse, skewed sine
- Variable waveform/duty cycle symmetry
- DC offset voltage from 0 to ±10V; can be superimposed to output waveform
- Output volt.: 20Vp-p (open circuit), 10Vp-p (into 50Ω)
- Input voltage: 110V/220V 50-60Hz

Includes: Power cord, BNC to clip cable, fuse & manual

Part No.	Product No.	Price
66069EX	FG8002	$189.95

Handheld 5MHz Oscilloscope with 4000-Count Digital Multimeter

221962EX

- 128 x 128 pixel graphic STN LCD
- E/L backlight
- PC interface via RS-232
- Memory and recall for 4 values
- With temp. measurement

Oscilloscope:

- DC-5MHz bandwidth; 20MS/sec. sampling rate; single channel
- Vertical axis: 3 steps (±0.5/5/50 volts) with 4 divisions
- Horizontal axis: 16 steps (800ns/div to 26.2ms/div) in 8 divisions
- Trigger: auto and internal mode, slope and 5 trigger level selectable
- Text display for peak to peak, min./max. voltage and frequency

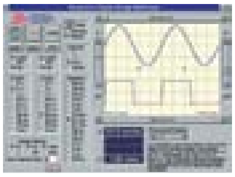
Digital Multimeter:

- 3¾-digit with 43 segment bargraph
- Auto ranging; triple display for related reading; data and range hold; auto/min/max hold and relative offset
- **DC voltage ranges:** 400mV – 1000V
- **AC voltage ranges:** 4V – 750V
- **DC/AC current ranges:** 400uA – 400mA
- **Resistance ranges:** 400Ω – 40MΩ
- **Frequency ranges:** 4kHz – 4MHz
- **Temp. ranges:** -40˚C – +1200˚C
- **Capacitance ranges:** 4nF – 400µF
- Size: 3.4"W x 1.5"D x 8.0"H • Weight: 3.9 lbs.

Includes: Manual, power adapter and test leads

Part No.	Description	1	5
221962EX	MS-1280 (w/ temperature)	**$349.95**	**$332.95**
221938EX	RS-232 cable & software	**19.95**	**18.95**
221946EX	Scope probe	**24.95**	**23.69**
221954EX	Holster	**5.95**	**4.75**

PC-MultiScope 100MHz Dual-Channel DSO



Turn your PC into a digital storage oscilloscope for 1/2 the cost of a DSO!

mission technology

- 100MHz sampling; dual channel
- Chart recorder and FFT mode
- 5mV to 5V per div.; 20MHz bandwidth; ext. trigger
- 0-4MHz sine and square wave signal generator
- Triple power supply; 5VDC @ 500mA and ±0-8VDC @ 250mA • One-year warranty

Includes: Parallel port cable, AC adapter, alligator clip probe, Windows® 3.1/95/98 software

Part No.	Description	1	10
163230EX	PC-MultiScope 3	**$579.95**	**$529.95**

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Log onto our website today for Jameco's complete selection of test equipment and accessories!

Handheld 20MHz Digital Oscilloscope & Multimeter

(Shown w/ logic probe P/N 162974EX – not included)

- 4-in-1: digital oscilloscope, DMM, frequency counter & logic analyzer
- **Oscilloscope**: 2-channel input, 5mV-2V/div; DC-20MHz(-3dB); 50ns - 0.5us/div; 20 MS/s sampling rate
- **Logic analyzer:** 8 inputs; 1.4V threshold level; 35VDC max. input; 50ns min. pulse width
- **Digital multimeter:** 3¾-digit (max. 3999 counts); 40 segment analog bargraph; AC/DC voltage 400mV-600V; AC current 40µA-400mA; DC current 400µA-400mA; resistance 400Ω-40MΩ; continuity & diode testing
- **Frequency counter:** 5Hz-20MHz; 5 digit max.; autoranging; AC/DC/DC input coupling; ±10ppm accuracy; 35Vrms/42V-P/60VDC max. input
- Oscilloscope probes: Use P/N 22891EX and 216047EX, pg 58 • One-year warranty
- Battery required for portable use (see below)
- Size: 10.0"L x 5.0"W x 2.0"H • Weight: 9.2 lbs.

Includes: Manual, 5VDC @ 3A power supply, power cord, DMM test leads, holster and case

Part No.	Description	1	5
162430EX	20MHz digital scope	**$749.95**	**$712.95**
162974EX	Logic probe	**59.95**	**53.95**
163141EX	Rechargeable battery	**45.95**	**41.49**
162966EX	RS-232 cable and software	**26.95**	**24.25**
221946EX	Scope probe	**24.95**	**23.69**

20MHz 2-Channel Oscilloscope with 1MHz Function Generator

- Basic specs same as 136098EX (below)
- **7 function generator**
- Frequency range: sine, triangle, square, TTL pulse
- Output impedance: 50Ω • Output voltage: 14Vp-p

Part No.	Product No.	Description	1	10
94650EX	OS5020G	Func. gen.	**$529.95**	**$499.95**

20MHz 2-Channel Oscilloscope

- 6" rectangular high-resolution blue CRT with internal graticule & scale
- Vertical deflection: 5mV/div to 5V/div in 10 calibrated steps
- Horizontal deflection: 0.2µs/div to 0.2s/div in 19 calibrated steps, 1-2-5 sequence
- Max. signal input voltage: 250V (DC and peak AC)
- ADD function measures sum of two signals
- Input voltage: 98-125VAC @ 1A, 198-225VAC @ 0.5A, 50-60Hz, 45W

Includes: Two X1/X10 40MHz probes, power cord, manual, and block diagram

Part No.	Prod. No.	Description	1	5
136098EX	OS5020	20MHz scope	**$399.95**	**$385.95**

50MHz Digital PC-Based Oscilloscope, Spectrum Analyzer and Transient Recorder

- Sampling frequency: 1.25kHz–50MHz real-time; 1GHz repetitive
- Input impedance: 1MΩ/30pF
- Parallel Port Interface
- Inputs: 2 channels, 1 external trigger input
- Max. input voltage: 100V (AC and DC)
- Power required: 9V to 10V @ 1000mA (recommend P/N 100888EX, pg 24)

Oscilloscope:

- Timebase: 20ns–100ms per division
- Input sensitivity: 5mV–15V per division w/auto step-function • Rec.: 4096 samples per channel

Spectrum Analyzer: • Frequency range: 0 to 25MHz

Transient Recorder: • Time scale: 20ms/div–2000s/div

- Max. recording time: 9.4 hours/screen
- Max. number of samples: 100/s

System requirements: IBM compatible PC, Windows® 95/98/ME, SVGA card, mouse, printer port, CD-ROM

Includes: 2 test leads, PC parallel cable, manual and CD-ROM software

Part No.	Product No.	1	5
200184EX	PCS500AU	**$478.95**	**$429.95**

100-Watt Digital DC Power Supply

30VDC @ 3A

- Triple output with fixed 5VDC @ 0.5A, 12VDC @ 0.5A
- Adjustable 0 – 30V voltage and 0 – 3A current outputs
- Displays of both voltage and current
- Constant voltage • Current limiting indicator
- Overload and short circuit protection
- Binding post terminals for variable supply
- Input voltage: 110/220VAC @ 50-60Hz (switchable)

Part No.	Description	1	10
197991EX	Digital DC	**$198.95**	**$178.95**

150-Watt Benchtop Power Supply

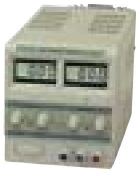
Single Output

- Power: 150W
- 30VDC @ 5A
- Display: 2-Analog
- Voltage and current adjustable
- Input voltage: 110/220 ±10% VAC
- Current restricted and short-circuit protection
- Analog display accuracy: 2.5%

Part No.	Description	1	10
207618EX	Digital DC	**$159.95**	**$144.95**

150-Watt Digital Power Supply

30VDC @ 5A



- Adjustable voltage/current outputs
- Constant voltage and current operation
- LCD displays for both current and voltage
- Coarse and fine adjustment knobs for current and voltage
- Color-coded terminals for positive, negative and ground connections • 2A @ 250V fuse
- Input voltage: 110/220VAC @ 50-60Hz (switchable)

Part No.	Description	Price
153242EX	30VDC @ 5A	**$234.95**

150-Watt Analog Power Supply

50VDC @ 3A

SALE

- Adjustable voltage/current outputs
- Constant voltage & current operation
- Color-coded terminals for ground, positive and negative terminals
- 3A @ 115V fuse
- Color-coded adjustment knobs for voltage, current and fine adjustment
- Input voltage: 110VAC @ 60Hz
- Size: 9.0"L x 4.75"W x 7.5"H • Weight: 12.3 lbs.

Part No.	Description	Price
163723EX	50VDC @ 3A .... *Was ~~$159.95~~*	$143.95

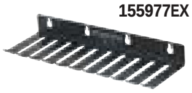
250-Watt Analog Power Supply

50VDC @ 5A

- Adjustable voltage/current outputs
- Constant voltage & current operation
- Color-coded adjustment knobs for voltage, current, and fine tuning
- Color-coded terminals for ground, positive, negative
- 5A @ 250V fuse • Isolated ground
- Input voltage: 110VAC @ 50-60Hz
- Size: 4.9"L x 7.7"W x 6.7"H • Weight: 13.8 lbs.

Part No.	Mfr. Cross Ref. No.	Price
175249EX	DPS5050	$189.95

Pomona® Test Lead Holders


155977EX

- Length: 11"

155985EX:
- Max cable dia.: 0.450"
- Color: blue

155977EX: • Max cable dia.: 0.320" • Color: black

155969EX: • Max cable dia.: 0.210" • Color: orange

Part No.	Prod. No.	No. of Slots	1	10
155985EX	2708B	9	$9.95	$9.45
155977EX	4408	10	9.95	9.45
155969EX	1508	14	9.95	9.45

Double Binding Posts – Dual Banana

- Red/Black design
- Screw-mount
- 0.72" between posts • Size: 1.6"L x 1.4"W

Part No.	Description	1	10
125196EX	Screw mount bind post	$3.95	$3.45

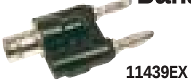
BNC to Double Binding Posts – Dual Banana

125233EX

- Red/black design

Part No.	Description	1	10	100
125233EX	BNC-female	$4.95	$4.49	$4.05
99354EX	BNC-male	5.29	4.76	4.28

BNC to Standard Double Banana Plugs

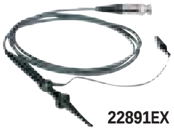

11439EX

125225EX

Permits BNC cables to be used with equipment having banana jacks. Lower connection: BNC; upper connection: double banana plug on .750" centers. Cross holes .166" diameter in body provide side stack-up connections.

Part No.	Description	1	10	100
11439EX	BNC banana plug (F)	$4.95	$4.49	$3.99
125225EX	BNC banana plug (M)	5.49	4.95	4.45

Modular Oscilloscope Probes


22891EX

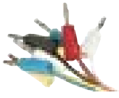
- 60MHz & 100MHz
- Hook and pointed probes
- **216047EX**: with IC test ground cover and spring ground contact
- Alligator clip ground wire
- Maximum input voltage: 600V
- BNC male connector • Length: 5'

	Bandwidth (±3dB)		Impedance (R/C)*	
	Attenuation		Attenuation	
Part No.	x1	x10	x1	x10
22891EX	6MHz	60MHz	1MΩ/180pF	10MΩ/22pF
216047EX	6MHz	100MHz	1MΩ/47pF	10MΩ/16pF

* with 20pF oscilloscope input

Part No.	Mfr. Cross Ref. No.	1	10
22891EX	LF101E	$24.95	$22.46
216047EX	HF-9100	34.95	29.95

Banana to Banana Test Leads



- Stackable
- Color coded; 2 each red, yellow, blue, black, white • 9.8" long
- 10 per package • 18 AWG wire

Part No.	Description	1	10
77841EX	Test leads	$22.95	$20.69

Double Banana Plugs

SALE 125217EX

- Dual gold-plated female banana plugs
- Stackable

Part No.	Description	1	10
125209EX	Blk banana connector	$2.65	$2.39
125217EX	Red banana connector	1.99	1.79

Alligator Clip Leads

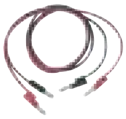
- 24 AWG wire
- Color-coded, 15" long
- Insulated alligator clip on each end
- 10 per pkg. in assorted colors

Part No.	Description	1	10
10444EX	Alligator leads	$4.39	$3.95

Pomona® Stackable Banana Test Lead Cables

159898EX

159901EX


159919EX

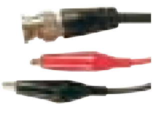
- 5000V @ 15A • 55˚C max.

159919EX: Two 36" leads, mini clip w/ banana
- 45VAC @ 5A max.; beryllium copper contact and glass filled insulation

159901EX: Two 24" leads **159919EX**: Two 36" leads

Part No.	Prod. No.	Description	1	10
159898EX	3782-36	Mini w/ banana	$7.95	$7.19
159901EX	B-24-02	Patch cord	9.95	8.95
159919EX	B-36-02	Patch cord	9.95	8.95

BNC to Alligator Clip Test Cable



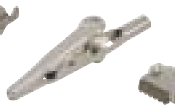
Permits BNC assembly to be used as a test cable.

- Upper connection: two alligator clips – red 5.5" 22AWG wire; black 9" 22AWG wire
- Lower connection: 23" RG/58U cable w/ BNC connector

Part No.	Description	1	10
11383EX	BNC cable	$3.49	$2.49

Alligator and Claw Clips

248920EX


256524EX

248997EX

Jameco offers different types of clips for different applications. Claw clips with teeth on three sides of the jaw for better grip and screw terminal connections. Steel alligator clips with either solder / crimp connection or barrel / screw connection.

248920EX: 1.2"L x 0.3"W **248997EX:** 2.8"L x 0.6"W
256524EX: 1.9"L x 0.2"W **248938EX:** 1.6"L x 0.3"W
248989EX: 2.1"L x 0.4"W **249009EX:** 2.5"L x 0.5"W

- **Prepackaged: order in increments of 2**

Part No.	Description	2	4	10
248920EX	Mini-alligator clip solder/crimp	$.28	$.25	$.23
248954EX	Red insulator for P/N 248920EX	.18	.16	.14
248946EX	Black insulator for P/N 248920EX	.18	.16	.14
256524EX	Alligator clip barrel/screw	.45	.38	.35
248938EX	Alligator clip solder/crimp	.52	.48	.42
248971EX	Red insulator for P/N 248938EX/256524EX	.21	.19	.17
248962EX	Black insulator for P/N 248938EX/256524EX	.21	.19	.17
248989EX	Claw clip 10A, screw terminal	.45	.44	.40
249009EX	Claw clip 20A, screw terminal	.55	.50	.45
248997EX	Claw clip 30A, screw terminal	.69	.62	.55

1⁹⁄₁₆" Banana Plugs

- .1875" lead opening
- Set-screw connection
- Standard banana spring plug
- Additional 6-32 threaded hole for connection reliability
- Insulating sleeve is threaded to banana plug body

Includes: One red and one black plug

Part No.	Description	Size	1	10
72194EX	Banana plugs	1.6"L x 0.4"Dia.	$1.59	$1.49

Mini-Clip Test Leads

These spring loaded mini-clips hook easily to IC pins for testing.

- Set of five: red, blue, green, black and yellow
- 14"L clips on both ends
- 26 AWG to 300V CSA/UL approved wire

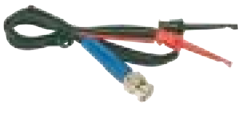
Part No.	Description	1	10
135298EX	Mini test leads	$11.49	$10.39

Mini Test Clips

- Two lengths
- One black and one red hooked probe clip

Part No.	Description	1	10
114809EX	1.75" mini test clips	$1.89	$1.49

Mini-Clip BNC to Clip Test Cable



BNC connectors are designed for signal frequencies into the gigahertz range, making them ideal for communications, video & test equipment.

Part No.	Description	Length	1	10
11463EX	Mini-clip RG174	39"	$4.39	$3.99

Avoid costly downtime.

This compact, handheld Data-Vac electric duster is far less expensive and better for the environment than canned air. It quickly and easily blows dust, lint and debris off keyboards, computers, printers, disk drives, fax machines, photographic and other high-tech equipment. That helps prevent costly downtime and computer repair.

- 1.73 amps/0.5HP motor • 25 CFM/10,000FPM
- 12' UL approved power cord
- Attachments: air pin pointer & power air maximizer

Part No.	Description	Wt. (lbs.)	Price
219192EX	Data-Vac electric duster	2.9	$49.95

Electronic Duster

Now you can use the same cleaning system that computer and copy-machine techs use nationwide. Its high power and 4-piece Micro Cleaning Tool Kit gets into all the nooks and crannies of your keyboard, computers, fax machines, printers, and scanners to bring them back to clean-room condition. Plus, its custom carrying case makes it easy to ensure high level performance of everything you own.

Part No.	Description	Price
219256EX	Data vac pro	$59.95
219264EX	Disposable bags	4.99

Multi-Function Stopwatch

You might pay more, but you won't find a more full-featured and ingeniously- useful stopwatch than this pocket-sized powerhouse. Time single events, cumulative splits, and compare two competitors with 1/100th of a second accuracy for events up to 30 minutes. Clock and calendar functions round out the outstanding features.

- Time/calendar display: hours, minutes, seconds, month, date and day of week
- Alarm and snooze function
- Time display mode: 12/24hr. mode selectable

Part No.	Description	Price
239652EX	Multi-function stop timer	$7.49

Hot no-touch thermometer technology at a very cool price.

Take exact temperature readings with this tiny beauty in tight, unreachable or hazardous locations, from a safe distance and without the need for contact with the target. Just point the integrated laser pointer at the spot you want to measure and get a precise readout on the large, digital display. The data hold / max hold allows easy recording and comparison measurements, and a wide temperature range (-58°F to +518°F) gives you maximum flexibility. At just 2.7 ounces you can carry it anywhere. Flip a switch to shift from °F to °C for different applications. The 6:1 field of view can pinpoint hot spots easily. Works with two included AAA batteries.

Part No.	Description	Price
219361EX	Extech no-touch thermometer	$59.99

Fight water damage, easily and economically with this moisture test meter!

Attention homeowners, contractors and inspectors! This efficient and cost-effective moisture sensor meter lets you ferret out potential water damage, choose drier lumber, and check surfaces before painting, tiling or wallpapering. Dual scales (relative and percentage moisture) provide quick readings on a clear analog display. A 3-foot coiled cable makes it easy to get the contact probes into hard-to-reach places. Locate leaks, mash mildew and wallop wetness with this versatile handheld tool. A 9V battery, (not included), provides many hours of continues use.

Part No.	Description	Price
239361EX	Rapid moisture test meter	$34.99
198791EX	9 volt battery	2.85

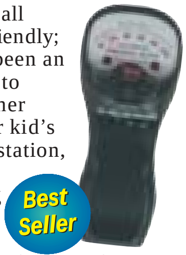
Digital Light Meter

- Lux and footcandle
- Range: 0 - 50,000 Lux
  0 - 5,000 Fc
- Analog output connections
- Separate light sensor for optimum location sampling
- Dimensions (sensor probe): 3.2"L x 2.2"W x 0.5"H

Part No.	Description	Price
131764EX	Digital light meter	$99.95

Find more tools and accessories on our website. Log on today @ www.Jameco.com

Electromagnetic Radiation Meter

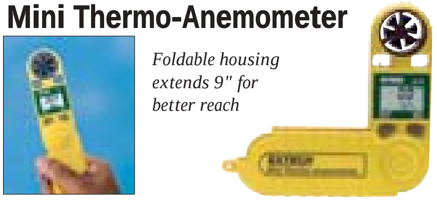


Electromagnetic radiation is all around us, some of it not so friendly; but until now there's never been an easier, more portable device to detect and measure it. Whether you're concerned about your kid's playground near the power station, the laboratory, microwave oven emissions, or searching for clandestine surveillance devices; the ZAP Checker can give you a new measure of peace of mind. Its portability and multiple settings allow you to search out EMR whenever and wherever you want, from your home or office environments to hotel suites and conference rooms.

- Range: 10MHz to 4.5GHz

Part No.	Description	Price
217808EX	ZAP checker	$129.95

Mini Thermo-Anemometer



Foldable housing extends 9" for better reach

Waterproof, pocket size with air velocity, temperature and windchill, all in one. Ideal for checking blowers, fans, exhaust hoods and balancing AC / HT ducts.

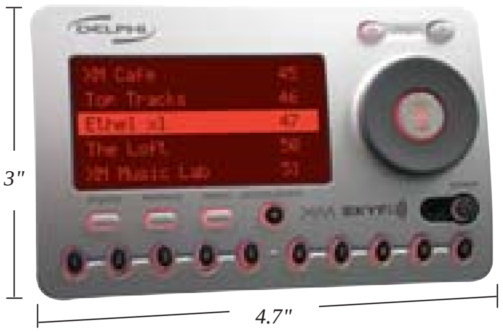
- Measures temperature and windchill from 0˚F to 122˚F (-18˚C to 50˚C)
- Measures wind speed in ft/min. MPH, m/s, km/h, knots and Beaufort force • Auto shut-off
- Large dual display for air velocity and temperature
- Water resistant housing floats and drop tested to 6'

Includes: CR2032 lithium battery and lanyard

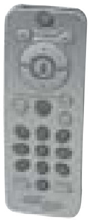
Part No.	Description	Price
218085EX	Mini thermo-anemometer	$88.95

Over 99% of our products are in stock! Place your order by 6PM EST for same business day shipment.

> "…XM Radio is a service I can wholeheartedly recommend."
> —Walter Mossberg, The Wall Street Journal



XM Satellite Base Receiver 226157EX



Just 1.5" thick!

Dock it in your home.

Part No.	Description	Price
226157EX	Radio base receiver & remote	~~$129.95~~ $114.95
	2-15/16"H x 4-11/16"W x 1-1/2"D. Requires docking station to produce sound.	
226181EX	Home docking kit	$64.95
	Includes dock, AC power cord, antenna, and audio cable with twin RCA output jacks.	
226202EX	Antenna extension kit	$34.95
	For improved reception with the Home Docking Kit	

** XM Radio subscription currently priced at $9.95/mo. Sign up via the Web or by calling toll-free once you get your new receiver. Receive complete audio instructions via the receiver. Receiver produces sound only with a docking station.*

Satellite radio with 100 crystal clear channels that follow you everywhere; most commercial free!

Imagine being able to choose from 100 channels of music, broadcast news, sports and talk radio…and taking them everywhere you go. With the Delphi XM SKYFi Satellite Radio system and a subscription to XM Satellite Radio*, you'll enjoy 100 channels of entertainment, 35 of them commercial-free, anytime, anywhere.

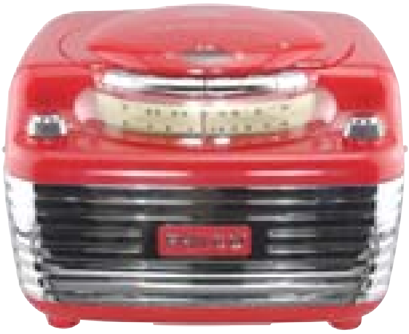
What do I need?
With this ingenious, modular system, the "brains" are contained in a palm-sized wireless base receiver small enough to slip into your pocket (#226157EX). Just buy one base receiver and use it in compatible docking station, wherever the location. Plug the Home Dock into the audio input jacks of your home or office stereo. **Just slip the receiver into a dock...**

...and 100 crisp, clear satellite stations, including up to 20 of your favorite presets, are yours at the touch of a button. The receiver's 5-line electric-orange display shows the currently playing song, artist, and more. You can even see what's playing on other channels before you switch. Narrow your search by category for fast navigation. Or use the jog-wheel to scroll through all the channels. Includes remote for the ultimate in home or office listening.

The XM Satellite Radio Broadcast System's signal is beamed from two huge earth-station antennas to its broadcast satellites 22,000 miles above the earth. Ground antennas, or repeaters, boost the signal around geographical and architectural obstacles. In fact, the quality of the XM signal is so good, Popular Science rated it "superb, with good dynamics, crisp frequency response and virtually inaudible distortion." Non-commercial programming for XM Radio is produced at the company's 150,000 square foot broadcast centers in Washington DC, Nashville, and Manhattan. The facilities include 82 studios, 20 production suites, 310 audio workstations and an unsurpassed library of digital recordings.

Retro-style record player with 21st century technology!

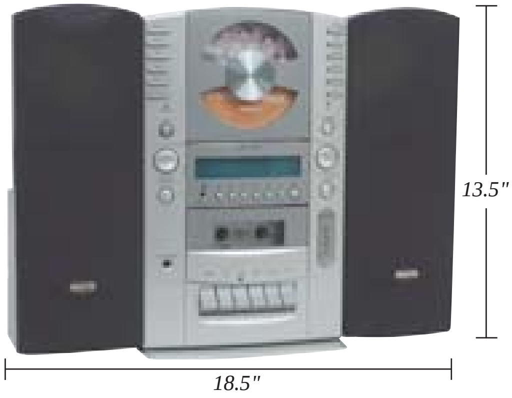
NEW



Dust off those old LPs and 45s, and get ready for a nostalgic trip to entertainment yesteryear! Lift the cover and spin your vinyl, or pop the top and play your favorite CDs in the same self-contained, stylish table-top package. Plus, a sensitive AM/FM tuner, complete with old-school controls, pulls in your favorite talk and music stations. Makes a great gift for the "cat's meow" in your life, or an elegant addition to any room's décor!

Part No.	Description	Price
285472EX	Turntable CD/record player with AM/FM tuner	$169.95

Over 99% of our products are in stock!



Includes spare covers for the detachable speakers, plus a handy remote.

Just 3.5" deep!

Stereo boasts big sound, sleek lines, and even runs on batteries for the patio.

SANYO

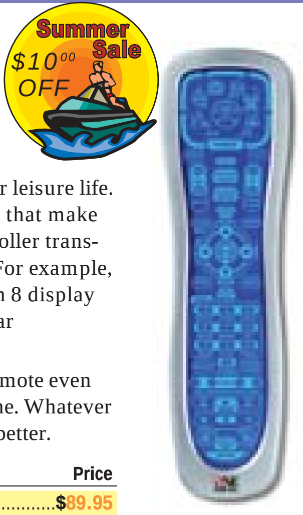
This handsome, all-in-one multimedia stereo creates a "true wall of sound" in your home or office.

This elegantly designed Sanyo stereo system fulfills your audio and aesthetic dreams. You get a stereo amplifier, CD player, cassette deck, digital AM/FM tuner, alarm clock, and two high-quality speakers sculpted into an elegantly sleek work of art.
Mount the entire system on the wall for a zero-footprint solution or on a table-top. Leave the speakers attached, or place them up to 12 feet apart for stereo separation. Fill any bedroom, living room, kitchen, bath, office or patio with rich sound.

The large backlit display and 20-key remote-control provides control of the entire system from the comfort of your bed or sofa. Preset as many as 20 FM and 10 AM stations. Wake to your favorite radio program, CD or tape. Includes base/treble control and headphone jack.

Part No.	Description	Price
211318EX	Sanyo slim-profile zero footprint stereo	$99.95

See only the controls you need, for each of 8 separate devices!



All remotes change channels, but this one changes itself!

The Kameleon 8 revolutionizes remote control as it simplifies your leisure life. Forget the maze of confusing buttons and complicated keystrokes that make some universal remotes a burden. With a touch, this unique controller transforms itself into the perfect remote for each of your components. For example, choose to control your DVD player, and the cool backlit Kameleon 8 display shows only DVD controls. And it offers the same easy, crystal-clear functionality for up to 8 devices.

Pre-programmed with the world's largest code library, this super remote even guides you interactively through its quick and painless set-up routine. Whatever your remote control needs, the Kameleon 8 will be a change for the better.

Part No.	Description	Price
235521EX	Kameleon 8™ universal remote control	$89.95

Just say the word, and watch your entertainment system respond.

Speak one command into your 8-device-rechargeable remote control on the table beside you, and it will power up your TV and VCR, turn to channel 3 and press play! Recognizes up to 50 macro voice commands and responds to 4 different multi-lingual voices. Picture-in-picture, shuffle and disc change features make sure you'll never have to get out of your easy chair again.

Part No.	Description	Price
236048EX	8-in-1 voice remote	$69.95

Hidden keyboard panel slides out to give you more options

Star Trek™ fans rejoice!

Now you can control up to 4 home theater devices with this realistic replica from the original spaced-out series. Distinctive light and sound effects will accompany your IR commands as you zap your way through the universe of video entertainment. Order now, and enter the next generation of remote control!

Part No.	Description	Price
236030EX	Phaser universal remote	Was ~~$39.95~~ $34.95

Enjoy a clearer signal & more stations with Phillips® antenna.

Most antennas are big or ugly, maybe even both! Many of the antennas out there are highly directional – so they get in the way when you orient them for best performance. But Phillips® packs a potent punch in a small package. This sleek package houses an omni-directional, powered FM antenna. It's miniature amplifier boosts weak signals so you can actually enjoy previously unlistenable, distant stations. You'll hear dramatically improved reception on both AM and FM bands, from a stylishly small device that hides on any shelf or can be mounted on any wall. Easily installs into any stereo. Includes one 75Ω to 75Ω and one 75Ω to 300Ω matching transformer.

Special Purchase

Part No.	Description	Price
235011EX	Phillips® AM/FM stereo antenna	$11.95

More Products @ www.Jameco.com

Expandable, great-sounding portable MP3 enjoyment, made affordable from Samsung!

An economical digital music player with top-of-the-line features is now within reach of any budget. This lightweight, compact 64-megabyte player delivers 60 minutes of your favorite tunes, enhanced by a built-in equalizer with 4 custom presets. This pocket-sized powerhouse features a SmartMedia slot for easy expansion, a backlit display and fast USB connectivity, all at an absolutely unbeatable price.

Part No.	Description	Price
235459EX	Samsung YEPP MP3 player	$69.95

TV Wall Mounts

NEW

A convenient way to save floor space and provide viewing pleasure for all. These TV wall mounts are of durable, quality construction. Cable management system keeps unsightly cables and cords out of sight. Tilts at the base up to 10 degrees and rotates up to 140 degrees in either direction. Includes mounting hardware and safety straps.

285915EX: for small 9" to 13" TV's; holds up to 60 lbs.

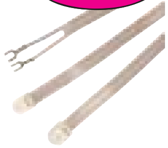
285923EX: for medium 19" to 21" TV's; holds up to 75 lbs.

285940EX: for large 25" to 27" TV's; holds up to 125 lbs.

Part No.	Description	Price
285915EX	Small TV mount	$61.95
285923EX	Medium TV mount	79.95
285940EX	Large TV mount	92.95

FM Dipole Antenna

NEW



This dipole antenna is your answer to a clearer, improved FM reception. This economical antenna is constructed of twin 300 ohm lead cables and the ends are terminated in plastic tabs for easy mounting to the back of your stereo or to the wall.

Part No.	Description	Price
285827EX	FM dipole antenna	$2.29

Rabbit Ears

NEW

Panasonic type dipole antenna. Fits most TV receivers. Retractable antenna.

Part No.	Description	Price
285801EX	Rabbit ears	$4.49

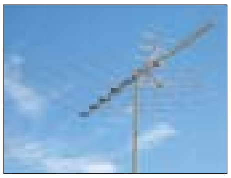
NEW Channel Master

Advantage Series Outdoor Antennas

Channel Master created the Advantage Series antennas with ease of use and installation in mind! Superior performance, economical pricing, and pre-assembled for ease of installation make this antenna line the perfect choice for the Do-It-Yourselfer. HDTV digital compatible.

286846EX

286811EX


286838EX

286871EX

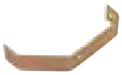
Model No.	Recept. Range (miles) VHF/FM	UHF	Dimensions (L" x W" x H")	Tuning Radius	No. of Elem.
3014	25	15	53 x 84 x 2	40"	15
3016	45	30	66 x 84 x 22	41"	24
2001	45	30	27 x 85 x 3	44"	10
3018	60	40	113 x 95 x 22	78"	38

Part No.	Model No.	Price
286846EX	3014	$34.95
286811EX	3016	47.95
286871EX	2001	23.95
286838EX	3018	79.95

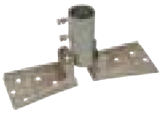
Mounts and Mounting Hardware

NEW

286037EX


285851EX

285878EX


285860EX

285886EX

286037EX: 5ft. x 1-1/4" diameter steel mast, 18GA, powder coat paint

285851EX: 6" Heavy duty wall mount; up to 1-1/2" masts; lag bolts included

285878EX: Universal "J" pipe roof/wall mount; 38"L

285860EX: Universal saddle TV mass mount; up to 1-1/4" to 1-1/2" masts

285886EX: Heavy duty tripod mount; 3ft. 1-1/4" diameter legs; up to 1-3/4" diameter mast

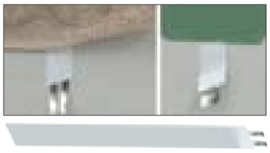
285991EX: Pitch pad and lag bolt kit for tripod mount (P/N 285886EX); includes 3 pitch pads and 6pcs. 2" x 1/4" lag bolts

Part No.	Prod. No.	Description	Price
286037EX	1807	5ft. steel mast	$5.99
285851EX	9032	TV mast wall mount	9.95
285878EX	3009	Universal roof/wall mount	26.55
285860EX	9039	Saddle TV mast mount	7.99
285886EX	9003	Tripod mount	24.95
285991EX	9139	Pitch pad and bolt kit*	3.95

* For P/N 285886

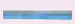
See back cover for details on our New StealthTenna™ Antenna

Run home improvement and entertainment flatwire cables anywhere, invisibly!



This invisible innovation is a dream come true for do-it-yourselfers and home technology contractors! Just measure the length, peel the self-adhesive backing, and run these super-flat wires along walls, floors, under carpeting or behind molding! On finished walls, just smooth on a little spackle and paint for an amazing wiring installation that's typically only a few hundredths of an inch thick.

Specifications White Backing

Part No.		Wire	Gauge	Width (in.)	Thick (in.)	Max Curr.	Typical App.	Length (feet)	Price
263353EX 263311EX		8	16	0.75	0.25	13.0A	High wattage audio & lighting	25 100	$45.95 159.95
263370EX 263361EX		2	18	0.75	0.011	10.0A	Speaker, alarm sirens, low voltage lighting	25 100	31.35 108.95
263396EX 263388EX		4	18	1.25	0.011	10.0A	Indoor or outdoor pairs for two speakers	25 100	44.55 154.95
263417EX 263409EX		2	75Ω	0.5	0.05	N/A	75Ω video coax for cable TV, video & CCTV	25 100	41.95 145.95
263450EX 263433EX		8	24	0.75	0.05	3.7A	4 pair UTP for 100 base, TX, Cat5 or phone	25 100	59.49 205.95

Connectors

Compatible connectors for all your flatwire needs.

Part No.	Description	1	10
265404EX	2 contact terminal for all flatwire	$.75	$.65
213031EX	RJ45 jack for P/N 263450EX/263433EX	3.29	2.99
71984EX	RJ11 jack for P/N 263450EX/263433EX	1.39	1.19

265404EX

213031EX

71984EX

Remote Control Antenna Rotator

A Channel Master rotator is a mast-mounted, motor-driven device that permits the TV viewer to conveniently rotate the outdoor antenna in any direction to optimize TV reception.

NEW

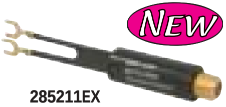
- Compatible with most remote controls incl. satellite
- Rotation: 1 RPM • 69-channel programmable mem.
- Non-volatile mem. holds locations during power failure
- Direct access via TV channel number of digital compass location

Part No.	Prod. No.	Description	Price
286803EX	9521A	Antenna rotator system	$81.95

75/300Ω Matching Transformers

NEW

75/300Ω impedance matching baluns. Bandwidth 5-900MHz UHF-VHF-FM. Gold with protective boot.


285211EX

Part No.	Prod. No.	Description	Price
285253EX	200-490	Indoor-outdoor balun	$1.99
285211EX	200-505	Indoor balun	1.49

900MHz MATV Splitters

NEW

5-900MHz, 75Ω MATV low-cost gold F spliter suitable for consumer MATV applications. DC power passing.

285165EX

Part No.	Prod. No.	Description	Price
285165EX	200-212	2-way	$3.75
285181EX	200-213	3-way	4.69
285190EX	200-214	4-way	5.69

F Ground Block

NEW

Used in CATV and satellite subscribe grounding.

- 900MHz single F ground block, 1 ground screw, yellow-chromate

Part No.	Prod. No.	Description	Price
285229EX	200-271	900 MHz single ground	$1.99

Broadband Amplifiers

NEW

285237EX

- UHF/VHF/FM • Imped.: 75Ω
- Low noise, heavy gauge shielded case
- 117VAC @ 60Hz power source
- Bandwidth: 54-890MHz
- Size: 3.5"W x 1.5"H x 2.3"D

285237EX: 6dB 2-output; VHF gain: 6dB; UHF gain: 2dB; flatness response: ±2dB

285245EX: 3dB 4-output; VHF gain: 3dB; UHF gain: 0dB; flatness response: ±2dB

Part No.	Prod. No.	Description	Price
285237EX	200-652	2-output broadband amplifier	$23.69
285245EX	200-700	4-output broadband amplifier	28.45

In-Line Amplifier

NEW

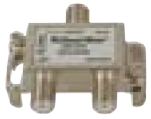
This amplifier will reduce or eliminate the signal losses caused by signal transformers, signal splitters, other in-line devices, or long cables that run between the antenna and receiver system. Amplifies virtually any satellite, TV, or radio signal from 50 MHz to 2,200MHz.

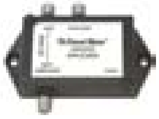
- Input capability: 83dB uV min. (7-channel inputs)

Part No.	Description	Price
286053EX	In-line amplifier	$19.95

Satellite IF-VHF/UHF Diplexers

NEW


286133EX


286150EX

286918EX

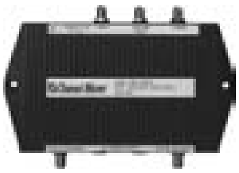
These diplexers are used for separating or combining satellite signals, at 950-1250MHz with VHF/UHF signals at 54-806MHz. They include a high pass filter tuned to 950-2150MHz and low pass filter tuned to 54-806MHz. In addition, a DC power pass is provided from the satellite port to the common in order to pass satellite receiver LNB voltage. The power pass feature passes DC through 22kHz for polarization and satellite selection commands using 13/18V, 22 kHz.

- Impedance: 75 Ω
- Type F female connectors

Part No.	Prod. No.	Description	Price
286133EX	4001IFD	Separating (1 inp. VHF/UHF; SAT out.)	$9.95
286150EX	4002IFD	Combining (1 out. VHF/UHF; SAT inp.)	17.95
286168EX	4022IFD	Dual comb. (2 out. VHF/UHF; 2 SAT inp.)	29.95
286918EX	4032IFD	Dual comb. (2 out.; 1 VHF/UHF inp.; 1 SAT inp.; DC pass)	23.95

Dual Satellite Diplexer Amplified VHF/UHF

NEW



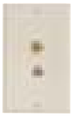
The complete one box solution to provide satellite and amplified VHF/UHF signals to two locations in a building from twin LNB and off-air antenna! The two high performance diplexers eliminate UHF LNB noise and any off-air pick-up at satellite frequencies. The VHF/UHF preamplifier is a split-band type and includes FM trapping.

- Impedance: 75 Ω
- Type F female connector
- Noise figure: VHF 3.5dB, UHF 2.5dB
- Size: 1.9"H x 2.5"W x 0.8"D
- Inputs: 3 (LNB A, LNB B, VHF/UHF)
- Outputs: 2 (SAT A & B – VHF/UHF)

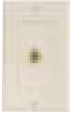
Part No.	Prod. No.	Description	Price
286117EX	4007IFD	Dual satellite diplexer	$59.95

Decorator Style Wallplates

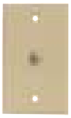
NEW

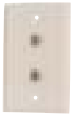

285392EX

285405EX


285350EX

285325EX


285270EX


285309EX

Single gang decorator-style flush plates mounted in standard electrical boxes. High-impact ABS plastic mounting bracket supplied with matching color screws.

Part No.	Prod. No.	Description	1	5
RJ-11 jack and gold F-type coupler • 6 micro" gold plated contacts				
285392EX	300-103WH	White plate	$3.29	$3.15
285384EX	300-103IV	Ivory plate	3.29	3.15
3-RCA connectors (Yellow-Red-Black) with insulators, gold plated				
285413EX	200-260WH	White plate	$5.99	$5.49
285405EX	200-260IV	Ivory plate	5.99	5.49
F-type gold coupler, 75Ω				
285350EX	200-253WH	White plate, single	$3.39	$2.95
285341EX	200-253IV	Ivory plate, single	3.59	3.39
285376EX	200-255WH	White plate, dual	4.19	3.95
285368EX	200-255IV	Ivory plate, dual	4.19	3.95
Standard RJ-11 and F-type coupler				
285325EX	300-234WH	White plate	$2.35	$2.29
285317EX	300-234IV	Ivory plate	2.35	2.29
Standard F-type coupler, 75Ω				
285288EX	200-251WH	White plate, single	$1.95	$1.85
285270EX	200-251IV	Ivory plate, single	1.95	1.85
285309EX	200-252WH	White plate, dual	2.89	2.75
285296EX	200-252IV	Ivory plate, dual	2.89	2.75

Satellite IF Multiswitches

NEW

Channel Master's lowest cost multiswitches supply LNB power from the satellite receivers. Intended for use in systems when 117VAC is not available at the distribution point where it is desired to locate a multiswitch, making these units ideal. Includes a VHF/UHF amplifier. As such, at least one satellite receiver must be connected to pass VHF/UHF signals.

- 75Ω impedance
- Type F female connector
- Insertion loss: 5dB
- Noise figure: 7dB
- Satellite input frequency range (MHz): 950-1250
- Isolation cross polarization (output to opposite polarity input): 32
- Maximum input (dBm, per transponder): -23
- LNB voltage: (nominal 13V, >12V into any output): 11.2
- Size: 6.4"H x 4.2"W x 1.2"D

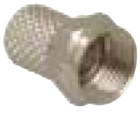
Part No.	Prod. No.	Description	Price
286934EX	6344IFD	Active VHF/UHF	$79.95

75Ω F Connectors

NEW

289828EX

289924EX


290001EX

Part No.	Type	Description	1	10	50	100
289828EX	RG-59	Crimp-on nickel plated	$.22	$.20	$.17	$.14
289908EX	RG-59	Crimp-on gold plated	.45	.43	.41	.39
289887EX	RG-6	Crimp-on nickel plated	.22	.20	.17	.14
289916EX	RG-6	Crimp-on gold plated	.45	.43	.41	.39
289975EX	RG-59	Twist-on nickel plated	.79	.69	.45	.32
290001EX	RG-6	Twist-on nickel plated	.79	.69	.45	.32
289924EX	RG-6	Crimp-on weatherproof seal	.69	.59	.49	.39

Belden Coaxial Cables

75Ω Broadband Coax CATV Cable RG6/U Type

18 AWG solid .040" bare copper-covered steel

- DuoBond® II +60% aluminum braid shield
- Gas injected foam polyethylene insulation; black PVC jacket • Color: black – 10
- Nom. capacitance: 53.1pF/m • Nom. impedance: 75Ω • Nom. outer diameter: .270"

Part No.	Product No.	Description	1	5	10
233269EX	9116-100-10	100' reel	$21.39	$17.97	$16.23
233277EX	9116-500-10	500' reel	58.56	51.40	48.73

Direct Broadcast Satellite RG6 Type Cable

18 AWG solid .040" bare copper

- DuoBond® II +60% aluminum braid • Color: black – 10
- Gas injected foam polyethylene insulation, PVC jacket
- Nom. capacitance: 16.2pF/m • Nom. impedance: 75Ω • Nom. outer diameter: .270"

Part No.	Product No.	Description	1	5	10
234156EX	1829AC-100-10	100' reel	$12.23	$11.65	$11.04
234177EX	1829AC-500-10	500' reel	58.66	55.56	52.86

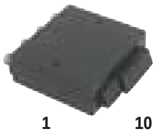
75Ω Standard Analog Video Cable RG59/U Type

23 AWG solid .023" bare copper

- 95% bare copper braid shield • Color: black – 10
- Polyethylene insulation and black PVC jacket
- Nom. capacitance: 67.3pF/m • Nom. impedance: 75Ω • Nom. outer diameter: .242"

Part No.	Product No.	Description	1	5	10
232901EX	8241-100-10	100' reel	$44.55	$40.25	$36.62
232910EX	8241-500-10	500' reel	118.81	107.71	97.91

3-Way Coaxial Switch Box

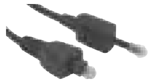


- Switches from a single input or output source to 3 outputs or inputs
- 60dB isolation – shielded housing
- 75Ω input-output
- 5-900MHz UHF/VHF/FM

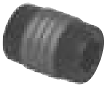
Part No.	Description	1	10
228241EX	Coaxial switch box	$4.85	$4.59

Digital Audio Optical Cables and Adapters

228654EX


228689EX

230615EX


230607EX

Connect your DVD, CD, Mini Disc, DAT, game console or other digital audio equipment for clear, full and richly detailed sound. For the ultimate listening experience, connect to your Dolby Digital® or DTS® home theater equipment. These cost effective performance TOSLINK type cables give you the cleanest possible signal, even at extreme volume levels for today's audio and home theater applications.

- Low-loss core provides low distortion and high signal-to-noise ratio
- Clad reflecting layer prevents phase error and noise, achieving high-fidelity transmission effect
- Corrosion-resistant, precise collar to ensure long lasting quality
- Non-slip rubber grip connector provides for easy installation
- Ultra flexible PVC jacket makes installation, even in hard to reach areas a snap

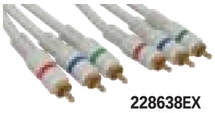
Cables

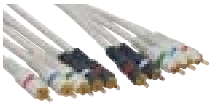
Part No.	Description	1	2	5
228654EX	3' TOSLINK–TOSLINK	**$3.79**	**$3.35**	**$2.85**
228689EX	3' TOSLINK–mini plug	**9.95**	**8.95**	**7.95**
228662EX	6' TOSLINK–TOSLINK	**4.75**	**4.29**	**3.79**
228697EX	6' TOSLINK–mini plug	**16.65**	**14.99**	**13.49**
228671EX	12' TOSLINK-TOSLINK	**7.29**	**6.59**	**5.95**
228700EX	12' TOSLINK–mini plug	**23.29**	**20.95**	**18.85**

Adapters

Part No.	Description	1	2	5
230615EX	TOSLINK – mini plug adapter	**$2.79**	**$2.59**	**$2.49**
230607EX	TOSLINK – TOSLINK coupler	**1.89**	**1.79**	**1.69**

Component Video and Audio Cables


228638EX


229403EX

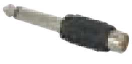
Component video cables connect the latest video equipment like DVD players equipped with component video output jacks to LCD or plasma televisions, projectors and other component video devices. By using component video cables, you bypass the TV's Y / C separator and color decoder, routing the color (Y Pr Pb) information directly into the TV's matrix decoder. By sending the pure DVD component signal directly to a component video input-equipped display device, the DVD signal forgoes the extra processing that normally would degrade the image.

- Low-loss 75Ω oxygen-free copper center conductors and foam dielectric provide maximum signal transfer bandwidth for improved picture quality and performance
- Corrosion resistant, precise 24k gold-plated connectors ensure long lasting quality
- Fully molded color coded connectors attached to an ultra-flexible PVC jacket provides excellent strain relief, easy installation, and identification
- 100%, .012mm aluminum-polyester foil shielding and spiral-wound copper-braid shielding provides clear, noise-free, vivid picture quality
- Bonded construction design for neat, easy connection of component video and audio

Part No.	Description	1	2	5
228620EX	6' component video RGB cable	**$12.35**	**$11.15**	**$9.99**
228638EX	12' component video RGB cable	**23.75**	**21.39**	**19.25**
228646EX	25' component video RGB cable	**33.95**	**30.59**	**27.49**
229403EX	6' component video RGB and stereo audio cable	**17.29**	**15.59**	**13.99**
229411EX	12' component video RGB and stereo audio cable	**33.25**	**29.95**	**26.95**
229420EX	25' component video RGB and stereo audio cable	**47.55**	**42.79**	**38.55**

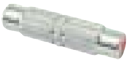
Find more cables on our website. Visit us at www.Jameco.com.

Audio/Video Adapters and Cables


228283EX

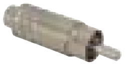
228312EX

228267EX

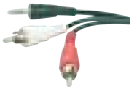

159441EX

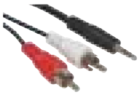
228259EX

228339EX


215458EX

196808EX


139037EX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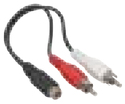
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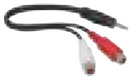
228355EX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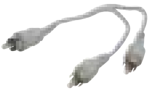
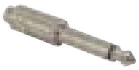

215466EX

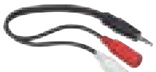
228275EX


215440EX

196082EX

228321EX

228304EX


228398EX

RCA Audio Adapters and Y-Cable

Part No.	Description	1	10
228283EX	RCA female jack to mono 1/4" male plug	**$.99**	**$.89**
228312EX	RCA male plug to 1/4" mono female jack	**1.25**	**1.10**
228267EX	RCA female to female jack coupler, gold plated	**.95**	**.79**
159441EX	RCA female to female jack coupler	**1.15**	**.99**
228259EX	RCA male to male plug adapter	**1.59**	**1.25**
228339EX	RCA F jack to 3.5mm mono M plug, gold plated	**1.49**	**1.29**
228291EX	RCA F jack to 3.5mm mono M plug, nickel plated	**1.25**	**1.09**
215458EX	RCA male plug to 3.5mm mono female jack	**.89**	**.75**
196808EX	5" Y-cable 1/8" stereo F jack to (2) RCA M plugs	**.75**	**.30**
139037EX	5' Y-cable 1/8" stereo M plug to (2) RCA M plugs	**2.25**	**1.99**
228401EX	6' Y-cable (2) RCA M plugs to 3.5mm stereo M plug	**1.55**	**1.39**
228371EX	6" Y-cable (2) RCA M plugs to RCA F jack	**.99**	**.89**
228355EX	6" Y-cable RCA M plug to (2) RCA F jacks	**1.15**	**.99**
228380EX	6" Y-cable (2) RCA F jacks to 3.5mm stereo plug	**1.65**	**1.35**
215466EX	8" Y-cable RCA M plug to (2) RCA M plugs	**1.89**	**1.69**

3.5mm Audio Adapters and Y-Cable

Part No.	Description	1	10
228275EX	3.5mm stereo female to female jack	**$.55**	**$.49**
215440EX	3.5mm mono female jack to 1/4" mono male plug *Was ~~$.29~~*	**.15**	**.14**
196082EX	3.5mm stereo female jack to 1/4" stereo male plug	**.59**	**.49**
228321EX	3.5mm mono M plug to 1/4" stereo F jack	**1.39**	**1.15**
228304EX	3.5mm stereo M plug to (2) 1/4" stereo F jacks	**2.05**	**1.85**
228339EX	3.5mm mono M plug to RCA F jack, gold plated	**1.49**	**1.29**
228291EX	3.5mm mono M plug to RCA F jack, nickel plated	**1.25**	**1.09**
215458EX	3.5mm mono female jack to RCA male plug	**.89**	**.75**
196808EX	5" Y-cable 1/8" stereo F jack to (2) RCA M plugs	**.75**	**.30**
139037EX	5' Y-cable 1/8" stereo M plug to (2) RCA M plugs	**2.25**	**1.99**
228398EX	6" Y-cable (2) 3.5mm stereo female jacks to 3.5mm stereo male plugs	**1.95**	**1.65**
228401EX	6' Y-cable (2) RCA M plugs to 3.5mm stereo M plug	**1.55**	**1.39**
228380EX	6" Y-cable (2) RCA F jacks to 3.5mm stereo plug	**1.65**	**1.35**

RCA Plugs

- High-quality plastic and metal housing RCA plugs

Part No.	Description	1	10
229876EX	Black	**$1.89**	**$1.69**
229868EX	Red	**1.89**	**1.69**
229884EX	White	**1.89**	**1.69**
230287EX	Yellow	**1.89**	**1.69**

Plastic screw on cover w/ integral cable protection

Part No.	Description	1	10
229921EX	Black (5 pk)	**$1.15**	**$1.05**
229930EX	Red (5 pk)	**1.15**	**1.05**
229913EX	White (5 pk)	**1.19**	**1.09**
229892EX	Yellow (5 pk)	**1.19**	**1.09**

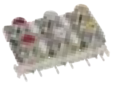
229876EX

229930EX

RCA Jacks

- P/N 237016EX: 2x3 grid; † Red/white/yellow

Part No.	Description	Color	1	10
237016EX	2.0"W x .45"D x 1.1"H	†	**$.89**	**$.79**
220581EX	.44"W x .56"D x .48"H	White	**.45**	**.31**
220556EX	.44"W x .56"D x .48"H	Red	**.45**	**.31**
220572EX	.44"W x .56"D x .48"H	Black	**.45**	**.31**
220564EX	.44"W x .56"D x .48"H	Yellow	**.45**	**.31**
112475EX	.44"W x .58"D x .48"H	Red	**.39**	**.35**
169501EX	.40"W x .85"D x .50"H	Black	**.39**	**.35**
159484EX	.84"W x .38"H	Black	**.49**	**.39**
172339EX	.84"W x .38"H	Red	**.49**	**.39**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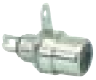
220556EX

220572EX

169501EX

172339EX

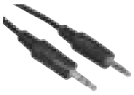

159484EX

Audio/Video Adapters and Cables SALE

229809EX

229391EX

228216EX/228574EX/
228582EX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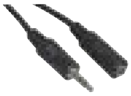
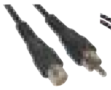
228507EX


228515EX/
228523EX

215474EX

228443EX/228451EX
228460EX/228478EX

206973EX/
29348EX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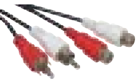
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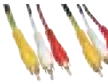
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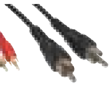
225998EX


228435EX

Video Adapters

Part No.	Description	1	10
229809EX	S-video 4-pin mini DIN female to female jack	$2.85	$2.59
229391EX	S-video male plug to RCA video female jack	5.39	4.85

Video/Audio Patch Cables

Part No.	Description	1	10
228216EX	3' stereo video patch cable, gold plated	$1.19	$1.13
228574EX	25' stereo video patch cable, gold plated	6.99	6.29
228582EX	50' stereo video patch cable, gold plated	12.59	11.35

VCR Cable

Part No.	Description	1	10
228224EX	6' stereo VCR cable	$2.39	$2.29

3.5mm Audio Patch Cables

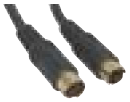
Part No.	Description	1	10
228494EX	6' 3.5mm stereo male to male plug	$1.39	$1.19
228515EX	6' 3.5mm stereo male plug to female jack	1.49	1.35
228507EX	12' 3.5mm stereo male to male plug	1.69	1.49
228523EX	12' 3.5mm stereo male plug to female jack	1.65	1.49

S-VHS Cables

Low-loss fully shielded Super-VHS cables, 4-contact mini DIN plus S-VHS cable and dual-RCA plug stereo cables.

- Fully-molded color coded gold RCA connectors
- Flexible black PVC jacket
- Applications: home theaters, DSS receivers, Super-VHS VCRs, camcorders, and DVD players

228558EX/228566EX: 95% spiral wound shield S-VHS/audio conductors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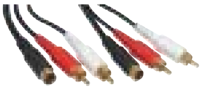

228558EX

Part No.	Description	1	10
228591EX	6' S-VHS cable, gold plated	$2.15	$1.95
228558EX	6' S-VHS audio-video cable, gold plated	12.95	11.65
228566EX	12' S-VHS audio-video cable, gold plated	14.95	13.45
228603EX	12' S-VHS cable, gold plated	2.65	2.35
228611EX	25' S-VHS cable, gold plated	4.05	3.85

Belden Multi-Conductor Audio, Control, and Instrumentation Cables Non-Plenum

22 AWG stranded (7 x 30) shielded caps
with 22 AWG stranded TC drain wire

- Polyethylene insulation
- Color: chrome – 60

8723 Series

Part No.	Product No.	Conduc.	Capacitance	Outer Diameter	Description	1	5
234190EX	8761-500-60	2	79pF/m	.175"	500' reel	$95.57	$86.69
234189EX	8761-1000-60	2	79pF/m	.175"	1000' reel	173.74	159.25
233234EX	8771-100-60	3	75pF/m	.199"	100' reel	36.36	30.55
233242EX	8771-500-60	3	75pF/m	.199"	500' reel	99.53	94.53
234179EX	8723-100-60	4	115pF/m	.168"	100' reel	21.96	19.93
234181EX	8723-500-60	4	115pF/m	.168"	500' reel	95.94	86.12

22 AWG stranded (7 x 30) unshielded caps

- PVC insulation
- Color: chrome – 60

8444 Series

Part No.	Product No.	Conduc.	Capacitance	Outer Diameter	Description	1	5
232995EX	8442-100-60	2	75pF/m	.199"	100' reel	$11.21	$10.10
233007EX	8442-500-60	2	75pF/m	.199"	500' reel	51.62	48.91
233023EX	8443-100-60	3	75pF/m	.199"	100' reel	15.69	14.23
233031EX	8443-500-60	3	75pF/m	.199"	500' reel	72.78	68.96
233058EX	8444-100-60	4	75pF/m	.199"	100' reel	20.10	18.22
233066EX	8444-500-60	4	75pF/m	.199"	500' reel	92.98	88.06

RCA Cables

Part No.	Description	1	10
215474EX	3' RCA male plug – female jack (gray)	$.89	$.79
228443EX	3' stereo RCA (2) male to (2) male plugs, gold plated	1.49	1.39
183311EX	4' RCA male to male plug (black)	.99	.89
206973EX	4' RCA male to male plug (yellow)	.99	.89
183302EX	4' RCA (2) male to (2) male plugs (red/black)	1.75	1.45
106374EX	6' RCA male to male plug	1.19	.99
228419EX	6' mono RCA male plug to female jack	1.65	1.45
228486EX	6' RCA stereo (2) male plugs to (2) female jacks	1.25	1.15
228451EX	6' RCA stereo (2) male to (2) male plugs, gold plated	1.79	1.69
184882EX	6' RCA (3) male to (3) male plugs, low loss	1.95	1.79
228427EX	10' RCA female jack to male plug	2.35	1.95
29348EX	10' RCA male to male plug (yellow)	1.69	1.44
228460EX	12' RCA stereo (2) male to (2) male plugs, gold plated	2.10	1.89
225980EX	12' RCA (3) male to (3) male plugs, gold plated	4.49	3.89
225998EX	20' RCA (3) male to (3) male plugs, gold plated	7.99	6.79
228435EX	25' mono RCA male to male plug, nickel plated	2.19	2.09
228478EX	25' RCA stereo (2) male to (2) male plugs, gold plated	2.39	2.29

3.5mm Female Jacks and Male Plugs

109495EX

101151EX

165729EX

231167EX

- Threaded screw on housing
- 1mm diameter solder eyelets
- Shield crimp tabs

231159EX/231167EX: With spring strain relief

Part No.	Mfr. Cross Ref.	Description	1	10
109495EX	PJ035PM	Mono female jack 3.5mm hole size	$.45	$.40
165729EX	PJ0354	Mono female jack 3.5mm hole size	.69	.59
101151EX	PJ1035	Mono male plug, plastic	.55	.43
147344EX	PJ1035L	Mono male plug, plastic Was ~~$.64~~	.55	.43
231159EX	AP-336	Mono male plug, metal	1.25	1.19
231175EX	AP-340	Stereo male plug, plastic	.55	.43
231167EX	AP-343	Stereo male plug, metal	1.79	1.60

Switchcraft® 1/4" Phono Jacks and Male Plugs

NEW

281789EX

281754EX

281746EX

Part No.	Mfr. Cross Ref.	Description	1	10
281789EX	297 ♠	1/4" stereo phone audio plug, metal	$4.59	$3.82
281771EX	280 ♠	1/4" mono phone audio plug, metal	3.15	2.82
281762EX	267 ♠	1/4" stereo phone audio plug, black plastic	4.25	3.22
281754EX	250 ♠	1/4" mono phone audio plug, black plastic	2.55	2.39
281746EX	12B ♠	1/4" stereo phone audio jack	1.49	1.39
281738EX	11 ♠	1/4" mono phone audio jack	1.39	1.29

Switchcraft® Pro Audio Jacks and Plugs

NEW

277026EX

281640EX

281594EX

281674EX

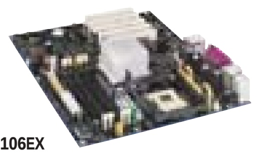
Part No.	Mfr. Cross Ref.	Description	1	10
281560EX	A3M ♠	3-pin male microphone, metal	$3.89	$3.27
277026EX	A3F ♠	3-pin female microphone, metal	4.49	3.99
281640EX	D3F ♠	3-pin female microphone, metal, panel mount	5.89	4.50
281594EX	A4M ♠	4-pin male microphone, metal	4.59	4.08
281586EX	A4F ♠	4-pin female microphone, metal	7.25	5.56
281674EX	D4M ♠	4-pin male microphone, metal, panel mount	5.19	3.96

♠ These products ship from a separate warehouse. Each warehouse will accrue separate shipping charges.

COLOR CODE LEGEND...
NEW SALE REFURBISHED CLOSEOUT

Intel® Processor-Based Motherboards

These Intel® motherboards provide the ultimate in speed, compatability and confidence, making them ideal for desktop systems and embedded solutions alike. Pentium® 4 and Celeron® based configurations.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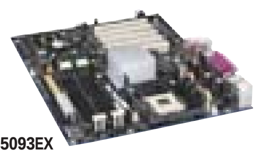
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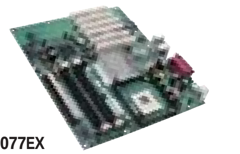
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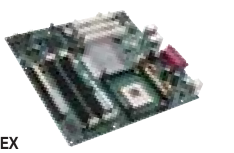
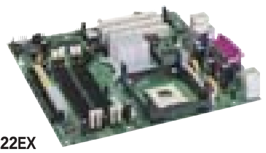

285085EX


285122EX

285114EX

♠ These products ship from a separate warehouse. Each warehouse will accrue separate shipping charges.

Jameco Part No.	Model No.	Mfr.	Internal Name	Board Style	Processor Support	Support FSB (MHz)	Chipset	Graphics	Memory Type (SDRAM)	Max. Memory/ Slots	Expansion Slots		Audio	USB Ports	HDD	On-Board LAN	Board Size	Wt. (lbs.)	Warranty	Jameco Part No.	Pricing 1	Pricing 10
285106EX	BOXD875PBZLK ♠	Intel	*Bonanza*	microATX or µATX	Pentium® 4	800 / 533	i875P	None	DDR 400/333	4GB / 4	5 PCI 32bit/33MHz AGP 8x/4x	⟷	None	USB 2.0 6 Back / 2 Front	2-ports SATA150 (1.5Gb/s) RAID 0; 2-ports ATA 100	Intel® PRO/1000CT (Gigabit)	11.52" x 9.6"	2.9	3 years ltd.	285106EX	$225.59	$214.29
285093EX	BOXD865PERLL ♠	Intel	*Rock Lake*	microATX or µATX	Pentium® 4/ Celeron®	800 / 533 / 400	i865P	None	DDR 400/333/266	4GB / 4	5 PCI 32bit/33MHz AGP 8x/4x		Full 6-channel surround sound + optical output with jack sensing	USB 2.0 4 Back / 4 Front	2-ports SATA150 (1.5Gb/s) RAID 0; 2-ports ATA 100	PRO/100 (10/100)	12" x 9.6"	3.1	3 years ltd.	285093EX	164.15	155.95
285077EX	BOXD865GBFL ♠	Intel	*Bayfield*	microATX or µATX Celeron®	Pentium® 4	800 / 533 / 400	i865G	Intel Extreme Graphic 2	DDR 400/333/266	4GB / 4	6 PCI 32bit/33MHz AGP 8x/4x		Flexible 6-channel audio with jack sharing	USB 2.0 4 Back / 4 Front	2-ports SATA150 (1.5Gb/s) 2-ports ATA 100	PRO/100 (10/100)	11.6" x 9.6"	2.8	3 years ltd.	285077EX	144.99	137.79
285085EX	BOXD865GLCL ♠	Intel	*La Crosse*	microATX or µATX Celeron®	Pentium® 4	800 / 533	i865G	Intel Extreme Graphic 2	DDR 400/333	4GB / 4	3 PCI 32bit/33MHz AGP 8x/4x		Full 6-channel with jack sensing	USB 2.0 4 Back / 4 Front	2-ports SATA150 (1.5Gb/s) 2-ports ATA 100	PRO/100 (10/100)	9.6" x 9.6"	2.5	3 years ltd.	285085EX	142.09	134.95
285122EX	BOXD865GRHLK ♠	Intel	*Rock Harbor*	microATX or µATX	Pentium® 4/ Celeron®	800 / 533 / 400	i865G	Intel Extreme Graphic 2	DDR 400/333/266	4GB / 4	3 PCI 32bit/33MHz AGP 8x/4x	⟷	Integrated AC97 audio	USB 2.0 4 Back / 4 Front	2-ports SATA150 (1.5Gb/s) 2-ports ATA 100	Intel® PRO/1000CT (Gigabit)	9.6" x 9.6"	2.5	3 years ltd.	285122EX	177.95	168.35
285114EX	BOXD845GVSRL ♠	Intel	*Seabreeze*	ATX	Pentium® 4/ Celeron®	533 / 400	i845GV	Intel Extreme Graphic	DDR 333/266	2GB / 2	3 PCI 32bit/33MHz		Integrated AC97 audio	USB 2.0 4 Back / 4 Front	2-ATA 100 / 66	Intel® PRO/100 (10/100)	9.6" x 8.2"	2.1	3 years ltd.	285114EX	83.45	79.29

Intel® Desktop Processors

Part No.	Product Name	Part Number	Speed (GHz)	FSB (MHz)	Cache	Package	1	10
283303EX	Pentium® 4†*	BX80532PG3400D ♠	3.4	800	512kB	mPGA-478	$607.59	$577.19
283258EX	Pentium® 4†**	BX80532PG3200F ♠	3.2	800	2MB	mPGA-478	1,329.95	1,264.25
283274EX	Pentium® 4†*	BX80546PG3200E ♠	3.2	800	1MB	mPGA-478	409.85	389.35
283311EX	Pentium® 4†*	BX80532PG3200D ♠	3.2	800	512kB	mPGA-478	409.95	389.45
283338EX	Pentium® 4†*	BX80532PE3066D ♠	3.06	533	512kB	mPGA-478	324.99	308.75
283282EX	Pentium® 4†*	BX80546PG3000E ♠	3.0	800	1MB	mPGA-478	324.99	308.15
283320EX	Pentium® 4†*	BX80532PG3000D ♠	3.0	800	512kB	mPGA-478	325.09	308.89
283291EX	Pentium® 4†*	BX80532PG2800E ♠	2.8	800	1MB	mPGA-478	266.55	280.55
283346EX	Pentium® 4†*	BX80532PG2800D ♠	2.8	800	512kB	mPGA-478	266.29	252.99
283354EX	Pentium® 4†*	BX80546PE2800D ♠	2.8	533	512kB	mPGA-478	244.39	232.15
283362EX	Pentium® 4†*	BX80532PE2667D ♠	2.66	533	512kB	mPGA-478	244.29	232.09
283371EX	Pentium® 4†*	BX80532PG2600D ♠	2.6	800	512kB	mPGA-478	266.29	252.99
283418EX	Intel Celeron®†	BX80532RC2600B ♠	2.6	400	128kB	mPGA-478	131.56	124.99
283389EX	Pentium® 4†*	BX80532PE2533D ♠	2.53	533	512kB	mPGA-478	244.39	232.19
283426EX	Intel Celeron®†	BX80532RC2500B ♠	2.5	400	128kB	mPGA-478	116.99	111.15
283397EX	Pentium® 4†*	BX80532PG2400D ♠	2.4	800	512kB	mPGA-478	239.75	227.75
283400EX	Pentium® 4†*	BX80532PE2400D ♠	2.4	533	512kB	mPGA-478	188.49	179.09
283434EX	Intel Celeron®†	BX80532RC2400B ♠	2.4	400	128kB	mPGA-478	102.59	97.45
283442EX	Intel Celeron®†	BX80532RC2200B ♠	2.2	400	128kB	mPGA-478	102.35	97.25
283451EX	Intel Celeron®†	BX80532RC2000B ♠	2.0	400	128kB	mPGA-478	94.99	89.99

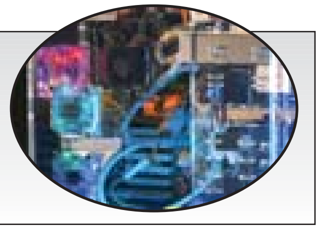
† Includes active heat sink; * Hyper-threading technology; ** Extreme edition processor w/ hyper-threading technology
♠ These products ship from a separate warehouse. Each warehouse will accrue separate shipping charges.

Legacy Processors

Pentium III/Pentium II/Pentium MMX/Pentium

Part No.	Description	Speed (MHz)	Package	1	10
183118EX	Pentium® III processor	600	Slot 1	~~$159.95~~ $117.59	$111.75
183100EX	Pentium® II processor	400	Slot 1	~~$124.99~~ 99.95	94.95
151651EX	Pentium® II processor	300	Slot 1	~~$109.99~~ 89.95	85.45
190060EX	Pentium® II w/ heat sink	233	Slot 1	89.95	79.95
150501EX	Pentium MMX® processor	233	376/PGA	69.95	62.95
140054EX	Pentium MMX® processor ⌘	200	376/PGA	49.95	37.45
130841EX	Pentium® processor	166	296/PGA	49.95	37.45
130833EX	Pentium® processor	133	296/PGA	39.95	29.95
118421EX	Intel 486DX2 processor ⌘	66	168/PGA	19.95	14.96

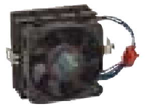
⌘ Pull

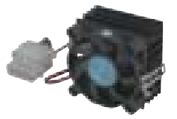


Turn your PC into an electronic work of art. See pages 74-75 for accessories.

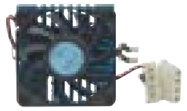
CPU Heat Sinks and Fans

206244EX

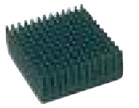

181278EX


216506EX

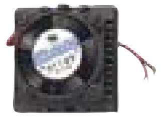
190545EX


185607EX

118092EX


129226EX/129234EX

191636EX


174115EX

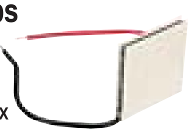
- Excellent for avoiding CPU overheating during extended system on-time
- High efficiency cooling fans
- Easy installation – just snap it in

Part No.	Description	Size (H" x W" x D")	Approvals	1	10
206244EX	Heat sink w/ dual fan slot (SECC 2)	5.25 x 1.95 x 1.30	CE	$12.95	$11.65
181278EX	Heat sink w/ fan for socket 7 (ATX)	2.12 x 2.05 x 1.67	UL/CE/CSA	8.49	7.65
216506EX	Heat sink w/ fan for socket 7 (AT/ATX)	1.95 x 2.05 x 1.37	CE	~~$9.95~~ 8.49	7.65
190545EX	Heat sink w/ fan for socket 370	2.45 x 2.42 x 2.10	—	14.25	13.55
185607EX	Heat sink w/ fan for socket 7 & 370	0.98 x 2.37 x 2.40	CE	14.95	13.49
118092EX	Heat sink w/ fan for 586 CPU w/ snap	2.18 x 2.30 x 0.86	UL/CE/TUV	4.95	4.49
129226EX	Heat sink for 486 CPU – adhesive back	1.70 x 1.63 x 0.36	—	2.95	2.65
129234EX	Heat sink for 486 CPU – adhesive back	1.70 x 1.64 x 0.66	—	2.95	2.65
191636EX	Heat sink w/ fan for 486 CPU w/ clip	1.85 x 1.92 x 0.72	UL/CE/TUV	5.95	4.45
174115EX	Heat sink w/ fan for 486 CPU w/ snap†	1.93 x 1.96 x 0.93	UL/CUL	3.95	2.96

† 14" lead wires

Thermoelectric Cooler Chips

- Cools down to -30˚C (dependent on external temp.)
- Temperature max. = 60˚C
- 20 AWG wire leads, 4" long
- Heat or cool by changing direction of current
- Operating voltage: 15.4VDC nominal


172048EX

Part No.	Mfr. Cross Ref. No.	Couples*	Watts	Voltage (max.) DC	Current (max.) A	Size (L" x W" x T")	Pricing 1	Pricing 10
172030EX	TEC30	71	19.7	8.4	4	1.2 x 1.2 x 0.2	$19.95	$17.95
172048EX	TEC40	127	35.6	15.4	4	1.6 x 1.6 x 0.2	25.95	22.95
172056EX	TEC50	127	79.1	15.4	8	2.0 x 2.0 x 0.2	33.75	29.35

* Couples: # of P&N type semiconductor pairs connected electrically in series

Hard Disk Drives

3.5" LP UATA/100 Disk Drives

Part No.	Model No.	Capacity	Interface	RPM	Seek (ms)	Cache (MB)	Warranty	1	10
284891EX	ST3200822A ♠	200GB	UATA/100	7200	8.5	8	3 yrs	$198.49	$188.59
284867EX	ST3160021A ♠	160GB	UATA/100	7200	8.5	2	1 yr	148.65	141.19
284883EX	ST3160023A ♠	160GB	UATA/100	7200	8.5	8	3 yrs	159.95	152.35
284824EX	ST3120022A ♠	120GB	UATA/100	7200	8.5	2	1 yr	128.15	121.75
284859EX	ST3120026A ♠	120GB	UATA/100	7200	8.5	8	3 yrs	136.89	129.99
284808EX	ST380011A ♠	80GB	UATA/100	7200	8.5	2	1 yr	103.89	98.69
284761EX	ST340015A ♠	40GB	UATA/100	5400	12.5	2	1 yr	78.89	74.95
284744EX	ST320014A ♠	20GB	UATA/100	5400	12.7	2	1 yr	72.29	68.69

3.5" LP SATA/150 Disk Drives

Part No.	Model No.	Capacity	Interface	RPM	Seek (ms)	Cache (MB)	Warranty	1	10
284939EX	ST3160023AS ♠	160GB	SATA/150	7200	8.5	8	3 yrs	$174.99	$166.29
284921EX	ST3120026AS ♠	120GB	SATA/150	7200	8.5	8	3 yrs	147.15	139.79
284904EX	ST380013AS ♠	80GB	SATA/150	7200	8.5	8	1 yr	111.99	106.39

2.5" UATA/100 Mobile Disk Drives

Part No.	Model No.	Capacity	Interface	RPM	Seek (ms)	Cache (MB)	Warranty	1	10
284955EX	ST94011A ♠	40GB	UATA/100	5400	12	2	3 yrs	$173.19	$164.55
284963EX	ST94811A ♠	40GB	UATA/100	5400	12	2	3 yrs	180.55	171.55
284947EX	ST92011A ♠	20GB	UATA/100	5400	12	2	3 yrs	120.35	114.35

♠ These products ship from a separate warehouse. Each warehouse will accrue separate shipping charges.

Legacy 3.5" Hard Disk Drives*

Part No.	Capacity	Description	Warranty	1	10
283231EX	20.0GB	Ultra ATA/133	3 mos.	$74.95	$71.29
200678EX	15.0GB	IDE ⌘	3 mos.	~~$79.00~~ 69.95	62.95
200660EX	13.0GB	IDE (ATA-4)	3 mos.	~~$87.15~~ 64.95	58.45
200651EX	10.2GB	IDE	3 mos.	~~$78.65~~ 59.95	56.95
189914EX	9.1GB	Ultra-wide SCSI SCA ⌘	3 mos.	~~$60.00~~ 49.95	44.95
151044EX	4.3GB	EIDE/Ultra DMA33 ⌘	1 year	49.95	45.95
197579EX	4.0GB	HH Fast SCSI-II (1.5") ⌘	3 mos.	~~$35.30~~ 29.35	26.69
146333EX	2.5GB	EIDE/Fast ATA-2 ⌘	1 year	~~$69.95~~ 49.95	44.95
146325EX	1.7GB	IDE/Fast ATA-2 ⌘	1 year	39.95	35.95
124978EX	1.27GB	IDE ⌘	1 year	~~$59.95~~ 35.95	32.35
118949EX	850MB	IDE ⌘	1 year	59.95	53.95
115764EX	425MB	IDE ⌘	3 mos.	59.95	53.95

⌘ Pull *Manufacturers may vary and capacity may exceed specification

DIMM and SIMM Memory

148398EX

Part No.	Mfr. Cross Ref. No.	Capacity	Description	Config.	Pins	1	10
285000EX	KVR400X64C3A/1G	1024MB	DDR400 ♠*	128M x 64	184	$498.49	$473.55
284998EX	KVR400X64C25/512	512MB	DDR400 ♠*	64M x 64	184	166.35	157.99
285026EX	KVR266X64C25/512	512MB	DDR266 ♠*	64M x 64	184	154.99	147.29
285018EX	KVR266X64C25/256	256MB	DDR266 ♠*	32M x 64	184	85.89	81.59
285042EX	KVR133X64C3/256	256MB	PC133 ♠*	32M x 64	168	90.65	86.15
285034EX	KVR133X64C3/128	128MB	PC133 ♠*	16M x 64	168	49.45	46.99
148419EX	16MBX64SDRAM	128MB	10ns Syn. DRAM DIMM	16M x 64	168	65.95	59.95
148401EX	8MBX64SDRAM	64MB	10ns Syn. DRAM DIMM	8M x 64	168	28.50	26.95
148451EX	JEED07264	64MB	60ns SIMM EDO	16M x 32	72	29.95	28.45
148398EX	4MBX64SDRAM	32MB	10ns Syn. DRAM DIMM	4M x 64	168	16.95	15.95
130711EX	JEEDO7216	16MB	60ns SIMM EDO	4M x 32	72	11.35	10.35
130729EX	JEEDO7208	8MB	60ns SIMM EDO	2M x 32	72	9.95	7.45
75133EX	P361000-XX-6	4MB	60ns SIMM	1M x 36	72	12.95	11.65

♠ These products ship from a separate warehouse. Each warehouse will accrue separate shipping charges.
* Kingston memory

1.44MB 3.5" Internal Floppy Disk Drive

- IBM PC/XT and higher compatibles
- Compatible with DOS versions 3.3 or higher
- Determines if disk is high or low density

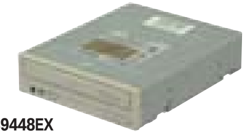
Part No.	Product No.	Color	Size	1	10
115490EX	FD235	Beige	4.0"W x 5.9"D x 1.0"H	$21.95	$19.95

Internal IDE CD-ROM Drives

- 5.25" half-height design
- Manufacturer varies
- One-year warranty

Includes: Audio cable

SALE


189448EX

Part No.	Speed	Buffer	kB/sec.	Weight (lbs.)	1	10
149307EX	24x	256kB	3600	2.6	~~$29.95~~ $27.95	$24.95
189077EX	48x ⌘	128kB	7200	2.6	35.95	30.95
189448EX	56x	128kB	8400	2.3	39.95	29.95

⌘ Pull

200 to 400-Watt PC Power Supplies

172822EX

Part Number	Mfr.	Product Number	Watts (W)	Output (VDC/A)	Input (VAC @ Hz)	Input Connector (Mating Connector/Cord)	Output Connector (Mating Connector)	Certification	Size (L" x W" x H")	Weight (lbs.)	Pricing 1	Pricing 10
201435EX	Xtreme Power	EPA400	400	+3.3/33, +5/45, +12/15, +5VSB/1, -5/1, -12/1	115/230 @ 47-63 switchable	3-prong AC receptacle with 6' power cord	ATX	UL/CSA/TUV/CE	5.6 x 5.9 x 3.4	5.0	$109.99	$89.95
152514EX	High Power	JE8250	250	+3.3/16, +5/25, +12/10, +5VSB/1.5, -5/0.5, -12/0.5	115/230 @ 50-60 switchable	3-prong AC receptacle with 6' power cord	ATX	UL/CSA/TUV	5.5 x 5.9 x 3.4	3.3	49.95	44.99
174465EX	Logic Concept	LC250C	250	+5/20, +12/10, -5/0.5, -12/0.5	110/220 @ 50-67 switchable	3-prong AC receptacle with 6' power cord	AT	UL/CSA/TUV/CE	5.5 x 5.9 x 3.4	2.0	54.95	49.46
172822EX	Mean Well	AA-230	200	+5/20, +12/8, -5/0.5, -12/0.5	115/230 @ 50-60 switchable	3-prong AC receptacle with 6' power cord	AT	CSA/TUV/CE	6.0 x 4.6 x 3.4	2.6	49.95	44.96

Pocket "secretary" captures all your great ideas.

Once you begin to use this sleek, feature & accessory-packed tapeless recorder, you'll wonder how you ever got along without it. Record up to 396 addressable messages totaling 2 hours (SP) or 4 hours (LP) (model 285499EX) or 9 hours (SP) or 18 hours (LP) (model 237198EX). They can be meetings, phone conversations, and audio from external devices, all in flawless digital clarity. USB connectivity quickly downloads your recordings to your PC. Included accessories: earphone, external (meeting) microphone, telephone adapter, audio cable, PC software, USB cable, and hand strap.

Includes all the accessories needed!

Part No.	Description	Price
285499EX	Digital USB voice recorder, 2-4 hrs	$89.95
237198EX	Digital USB voice recorder, 9-18 hrs	129.95

Zip, you're wired. Zip, its gone. Disappearing cable trick.

These thin, flexible cables weigh just half an ounce and roll up like a window shade for manageability?

Don't you hate lugging those heavy, bulky cables around with your laptop? Now, you don't have to. ZipLinq USB and Firewire cables are as lightweight, thin and flexible as a shoelace, and they store themselves tangle-free in a case the size of a quarter. To connect the cable, take a connector in each hand and pull to the length you need, up to 2-1/2'. Ready to roll? Tug gently, and the cable zips neatly into its case like a window shade.

Part No.	Description	Price
226405EX	Firewire M 4-pin to firewire 4-pin	$11.95
227424EX	Firewire M 6-pin to firewire 4-pin	11.95
227459EX	Firewire M 6-pin to firewire 6-pin	11.95
226392EX	USB A to mini USB 5-pin	9.95
226384EX	USB A to mini 4-pin	9.95
226376EX	USB A M to USB F	9.95
226368EX	USB A to USB B	9.95

USB Thumb Drives

SALE

217795EX

What better way to keep your data safe than to keep it close to you? Thumb drives are compact and fit easily in your pocket or hang it around your neck. Portable and lightweight, no external power needed. No drivers necessary for Windows® ME and above. Windows® 98/98SE drivers available on www.Jameco.com.

- 10 year data retention
- Size: 2.9"L x 0.7"W x 0.4"H

Part No.	Description	1	10
217761EX	32MB	$36.45	$29.95
217779EX	64MB	46.75	43.95
217787EX	128MB	79.15	71.95
217795EX	512MB	189.95	185.95

Add USB versatility to your computer with one-step, pocket-sized ease!

SALE

Instantly add more USB 1.1 ports to your desktop or notebook computer with this compact, compatible hub. Perfect for your laptop case, it tucks into any available space to provide plug-and-play versatility, on your desk or on the road. Whether you're a PC power user or a Mac fanatic, this hub will seamlessly expand your hardware horizons.

Part No.	Description	1	5
233365EX	4-Port mini hub ..... *Was ~~$9.95~~*	$8.59	$7.39

A DC adapter that REALLY adapts!

Replace your lost or faulty wall adapters with this one-stop, all-purpose switching power supply.

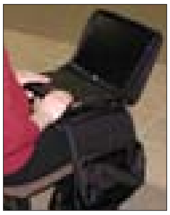
Simply select from six output voltages (3, 4.5, 6, 7.5, 9 and 12 volts), choose the appropriate polarity, then pick the DC plug that fits the application (8 are supplied). Perfect for travelers, it's lightweight, versatile, and compact!

Part No.	Description	Price
239564EX	Compact travel power supply	$22.95

Log on Today!
www.Jameco.com

Now you can have a mobile office!

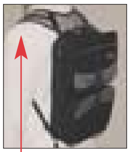
BackOffice/Laptrap



Protect your mobile computer with the BackOffice and Laptrap cases. Mil spec hardware and edge bound seams complement the shock-absorbing foam to protect your precious hardware and data. When arriving at your destination, simply unfold either case and you're ready to get to work. Gotta run? Just fold and go!

Stylish Vertical Briefcase

The **BackOffice** includes a shoulder harness and holds computers up to 14"x11"x2". Highly organized pockets can replace your briefcase, allowing you to carry essential office tools together with your computer!

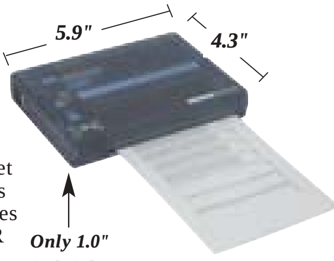


Harness for Laptrap

The **Laptrap** is a streamlined version with less pocket/storage space. It includes a padded sleeve that protects computers up to 14"x11"x1-3/4", and flaps for lap use. Optional shoulder harness.

Part No.	Description	Price
261411EX	BackOffice laptop case	$149.95
261518EX	Laptrap laptop case	59.95
261569EX	Optional shoulder harness for laptrap	14.95

Mobile PDA Pocket Printer



SALE

Palm-sized computers and PDAs are great, but printed output can be a challenge. Enter the Pocket Printer with it's internal batteries and wireless IR or serial-cable connections. This miniature wonder puts printer power in your pocket, at an unbeatable price. Now, you can output sharp text and continuous-tone graphics, anywhere and anytime. Everything you need is in the box: paper, serial cable, AC adapter, travel bag and software for popular PDAs and desktops.

Part No.	Description	Price
233357EX	Mobile pocket printer *Was ~~$44.95~~*	$34.95

Charge and sync your PALM or IPAQ with one cable—thin as a shoelace.

A boon for frequent travelers, ZipLinq manage all your PDA power and data transfer functions with a single cable. No charger cradle needed.

Imagine being able to charge the battery on your PDA, sync it to your PC, and download contacts…all with a single cable as flexible as a shoestring. If you're always on the go, the ZipLinq PDA cable is your new best friend. Lighter and more flexible than any cable you've ever seen — even a phone cord —ZipLinq transfers data at speeds up to 12 Mbps while simultaneously charging your PDA battery. When it's done, the 2-1/2' cable zips away into a durable case the size of a coat button.

Now you see it… now you don't.

Part No.	Description	Price
226350EX	Palm Sync-N-Charge for ME00s, 1750 and M130 *Was ~~$11.95~~*	$9.95
226333EX	IPAQ Sync-N-Charge for 36xx and 37xx series *Was ~~$11.95~~*	9.95
226341EX	IPAQ Sync-N-Charge for PC38x, 39x and 5400 series	9.95

This is so cool, you'll be its greatest fan!

Because you can't be too rich or too cool, take advantage of a great deal on this innovative personal USB-powered fan for laptop computing! You'll enjoy the added comfort of features like a flexible gooseneck mount, soft nylon blades and quiet motor. No batteries needed; it draws a tiny amount of power from your laptop's battery.

Part No.	Description	Price
256461EX	Mobile USB fan	**$8.99**

Light up your laptop and work anytime, anywhere!

Whenever and wherever you need light on your keyboard, this USB-powered, flexible, plug-and-play LED lamp will deliver. Think of the applications! Now, you can discreetly illuminate your keyboard as you navigate your presentations in darkened boardrooms, or work on the plane without disturbing others with overhead lights. Easy, innovative, and economical!

Part No.	Description	Price
256436EX	Mobile USB light	**$9.99**

Burn CDs on the go, with no AC power!

Barely bigger than a CD, this self-contained burner packs a super set of features into a compact, portable package. USB 2.0 lets you write your discs at 8x speed and read at 24x speed. Plus, this mobile unit gets all the power it needs from the computer connection and its built-in rechargeable lithium ion battery pack. Includes USB 2.0 cable, wall charger, Nero video / audio / data mastering software, manual and case. Supported operating systems: Win® 98 SE / ME / 2000 / XP.

Part No.	Description	Price
243061EX	Portable CD-R/RW drive	**$129.95**

Just slightly bigger than a CD-ROM!

Put more power in your points with this presentation sensation.

The best presenters know to "keep it simple," and this pen-sized presentation pal is the essence of simplicity. It provides easy, wireless "forward / backward" control of your Power Point slides, and incorporates a laser pointer into its go-anywhere, pen-format design. Bluetooth technology means plug-and-play set-up and solid control from up to 45 feet away!

Control your electronic slides from up to 45 feet away!

Part No.	Description	Price
256428EX	Smart pointer presenter	**$89.95**

Flexible USB Cable and Adapter

FlexUSB™ is a compact, lightweight accessory that bends, rotates, and flexes to your desired angle. It provides a means to position USB devices, allowing you the means to use it with any computer in even the most cramped environment. Its unique ratcheting design makes it possible to position your USB devices that is compatible with both Windows and MAC platforms.

Flexible USB cables and adapters make plugging in cables with ease, especially in tight spots!

Part No.	Description	Price
262078EX	Flexible USB adapter A M-F	**$10.95**
262158EX	Flexible USB cable with A-M to B-M connectors	**14.95**

Video conference on the road with this light, flexible camera.

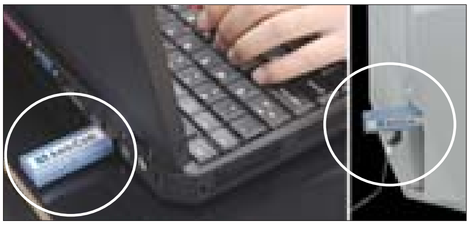
Now you can add video capability to your laptop without the bulk and bother of previous older technology. This USB camera is feather-light, but feature-heavy! The flexible gooseneck mount allows effortless positioning, and its fixed-focus, auto-exposure design means you'll capture great pictures with ease.

Part No.	Description	Price
262300EX	Mobile USB webcam	**$19.95**

Print up to 100 feet away, wirelessly!

Convenience and ease-of-use are what the wireless revolution is all about, and this kit will easily make your current printer conveniently cable-free! Now you can place your printer where you want it, not just where the cable will reach. Easy, plug-and-play USB installation means set-up is trouble-free, too. Works with many Canon, Epson, HP and Lexmark printers; and Windows® XP / 2000 / ME / 98 or Mac OS X v10.2.

Part No.	Description	Price
235133EX	Wireless printer kit	**$89.95**



Simply plug one unit into your computer, the other into your printer and you are ready for wireless printing. No more messy cables!

QTRONIX 17-Key PS/2 Keypad

A compact keypad designed for use with IBM compatible laptops and desktop PC.

- Auto-repeat function
- Tactile click-sound and touch
- Switch life of 20 million cycles
- For IBM PS/2 and compatibles
- Two key roll over
- One-year warranty
- Size: 5.6"L x 3.4"W x 0.9"D
- Installs into 6-pin mini DIN keyboard connector (no software required)

Part No.	Description	1	10
151811EX	Scorpius 20PB	**$34.95**	**$31.49**

Business Card CD-R Kit

This business card size CD-R kit includes twelve 50MB capacity CD-R disks and sleeves, 16 labels and label design software. You can print your personal or business information and burn company brochures, photos, sales presentations, business reports and so on. A great way to show your resume or promote your business in trade shows and exhibits. Easy to carry and cost-effective.

Part No.	Description	Price
249308EX	Business Card CD-R kit	$5.95

48x CD-R 100 Pack

- 700mb
- Speed: 48x
- 80 minutes
- 100 pack

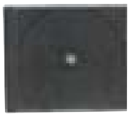
Part No.	Description	Price
249447EX	CD-R 100 pack	$29.95

CD, CD-ROM & DVD Cleaner

- Removes accumulated oils, dust, and debris from CD optical lens
- Single brush wet-dry cleaner
- 6-language voice guide instructions

Part No.	Description	Price
228531EX	CD laser lens cleaner	$9.99

CD Accessories

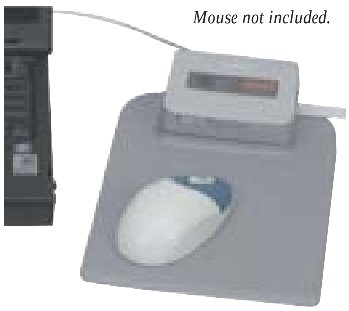


172179EX

208514EX

Part No.	Description	1	5	10
172179EX	Single jewel case	$.40	$.36	$.31
208514EX	Paper envelope 25 pk.	2.49	2.25	1.99

CASIO Label printer with mouse pad saves space!



Mouse not included.

This combination mouse pad and mini-printer makes labeling chores simple, affordable and fun. Labeling videotapes, envelopes, binders and files is one-click easy! Highlight text in your document, choose a pre-defined phrase, or type labels directly and your 18mm label pops out, ready-to-use. Compatible with Microsoft Windows® 98, 98SE and 2000 Professional PCs with USB.

Part No.	Description	Price
235483EX	Mouse pad label printer	$11.95

Cool, professional disc labels, made easy!

Now you can economically label your music CDs, business presentations, DVD compilations and multimedia portfolios like a true professional. Whether you choose standard-size discs, mini-discs or business-card media, this kit will help you design, print and apply the perfect label for your needs. Exact-fit applicator makes precise labeling quick and easy. Order refill kits now, too, in Gloss (LK4) or Matte (LK5) finishes, or choose a versatile kit (LK3) packed with jewel case inserts, disc labels, and multipurpose labels.

Part No.	Product No.	Description	Price
235150EX	LK2	CD/DVD/MINI label kit	$19.95
235176EX	LK4	CD/DVD labels glossy white	12.95
235168EX	LK3	CD/DVD labels matte white	9.95
235184EX	LK5	Jewel case inserts	9.95

EZ/CDPrint Printer

Impress your friends

220708EX

No more messy handwritten CD's

220716EX

Introducing the EZ / CDPRINT, the first printer that delivers a low-cost way to create professionally printed CD-R's, Credit Card CD-R's, CD Jewel case liner notes and standard color paper documents.

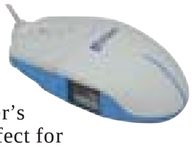
- Prints a full color CD in about a minute
- Compatible with all inkjet printable CD-R & DVD-Rs
- Both USB and parallel port connections
- Uses standard C60/C62 Epson inkjet cartridges
- Prints paper documents at 12ppm monochrome & 7ppm color
- Printer size: 18.0"W x 8.0"D x 7.0"H
- Special PC and Mac software and templates to print CD, liner notes and more

Requires: Windows® 95/98/2000/ME/XP, Mac OS 8.1 or higher operating systems

Includes: Printer, PC and Mac printer and template software, three printable disks

Part No.	Description	Price
220708EX	CD printer (software, cable, ink cartridges and CD-R's)	$279.95
220716EX	100 pk. printable 40x 700MB 80 min. CD-R	42.95

A point-and-click security solution!



With computer security on everyone's mind, this new USB mouse is an essential addition to your desktop. It eliminates the pitfalls of passwords and logon IDs by actually reading your fingerprint, providing instant access to the computer's authorized user, and locking everyone else out. Perfect for protecting machines that contain sensitive information (and what computer doesn't?), this top-of-the-line, programmable optical mouse truly puts high security at your fingertips!

System requirements: Windows® 95/95/NT/2000/ME/XP, available USB port

Part No.	Description	Price
262625EX	EyeD USB OptiMouse with biometric recognition software	$129.95

Plug-and-play biometric watchdog secures your data.

The EyeD Hamster fingerprint recognition tool for computers provides you with both security and convenience. Place the compact, self-powered Hamster next to your keyboard, and put the finger on would-be hackers with biometric security. The device and its SecuDesktop™ 2000 software suite reads your fingerprint in under a second, and allows PC access only to authorized users. Easy USB, PS / 2 or parallel port with pass-through connection. Includes installation manual and CD-ROM drivers.

System requirements: Windows® 95/98/NT4.0/2000/ME/XP, available USB port

Part No.	Description	Price
262713EX	EyeD hamster fingerprint scanner	$119.95

We're always looking for suggestions and feedback about the products we offer. Help us better supply more of the products you need. Feel free to drop us a line at: AtHome@Jameco.com

QTRONIX

USB or PS/2 3-Button Optical Wheel Mouse

- Ergonomic style 3-button optical wheel mouse
- High tech optical sensor for all surface types
- Size: 3.9"L x 2.3"W x 1.5"H

System requirements:

IBM PC or compatible, Windows® 98/2000/ME/XP, available PS/2 or USB port

Part No.	Description	Price
199591EX	Lynx-LVII	$29.95

QTRONIX

Trackball with Menu Software

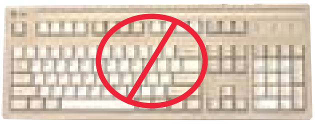
- Detachable wrist strap
- Variable res. (20-6400 dpi)
- Ergonomic design
- One million cycle life tactile switches
- 3.5" disk
- One-year warranty
- Size: 5.5"L x 4.6"W x 2.0"H

System requirements: IBM PC/XT and higher compatible systems; MS DOS 3.3 or later, Windows® 95

Part No.	Description	Price
128995EX	LIBRA 90 PM NET	$29.95

Space-Saver Keyboards

Full featured AT & PS/2 mini keyboards save valuable desktop space.



Standard Keyboard

Mini Keyboards save up to 30% desk space!

211756EX

- Adjustable tilt mechanism
- Tactile key stroke
- LED indicators for Num, Caps, and Scroll lock

199718EX: 83-key keyboard

- For PS/2 systems
- Auto repeat
- N-key rollover
- Size: 12.8"L x 6.2"W x 1.0"H
- Weight: 1.9 lbs.

114868EX: 84-key keyboard

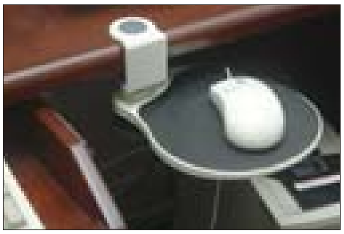
- For AT systems, designed for Windows® 95
- Size: 12.8"L x 6.6"W x 1.0"H
- Weight: 2.4 lbs.

211756EX: 88/89-key keyboard w/ touch pad

- For AT systems, designed for Windows®
- Built-in touch pad and embedded keyboard
- Soft touch membrane contact
- Size: 11.4"L x 8.5"W x 1.2"H
- Weight: 2.3 lbs.

Part No.	Description	Price
199718EX	83-key PS/2	$45.95
114868EX	84-key AT	49.95
211756EX	88/89-key AT	59.95

Organize and maximize your workstation.



Tired of trying to work without enough space? Free up your desk space with this convenient clip-on mouse platform. No drilling required – clamps on securely to your desk or workstation without damaging the desk. This unit also stores completely below your desk so you don't have to see it when not in use. Includes a cord clip to keep mouse cords tangle free and in position.

Part No.	Description	Price
249105EX	Clip-on mouse pad	$9.95

Your new favorite mouse is Mini!

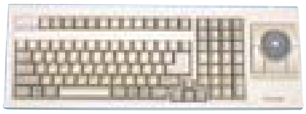
NEW

For no-nonsense reliability in a compact form factor, you can't beat this plug-and-play performer. Optical technology lets you work on any surface, even without a mousepad. And this mouse is the perfect size to slip into your laptop case. While it may be small, the features are full-size: PS/2 or USB connectivity, finger-tip scroll wheel, and 800 dpi resolution deliver top-of-the-line functionality, all at an unbeatable Jameco price.

Part No.	Description	Price
265471EX	Mini mouse	$17.89

QTRONIX

Win 95 104-Key Keyboard with Jumbo Trackball



- PC/AT and PS/2 compatible w/ DOS 3.0 or higher
- "N-Key" roll-over for quick typists
- Tactile click sound and feel
- Weight: 3.7 lbs.
- Size: 19.0"L x 6.8"W x 1.4"H
- One-year warranty

Includes: Software and AT cable adapter

Part No.	Description	Price
128717EX	Scorpius 35PM/NET	$99.95

104-Key USB Keyboard

- For PC's with USB ports
- Windows® compatible
- Windows® start menu key
- Soft-touch key
- 12-function keys with separate cursor and numeric keypad
- Extra USB ports on side and rear
- LED indicator for Num, Caps, Scroll Locks
- Multifunction keys for email, multimedia and sound
- Size: 18.6"L x 7.8"W x 1.4"H
- Weight: 3.8 lbs.

Gateway.

Part No.	Description	Price
263521EX	USB keyboard	$16.25

QTRONIX

22-Key Serial Keypad

- Tactile click-sound and touch
- Auto repeat function
- 9600 bps, data bits: 8, stop bits: 1, start bit: none, no parity
- 2-key rollover
- Serial DB9 connector
- One-year warranty
- Color: black
- Size: 6.2"L x 4.2"W x 1.3"H

System requirements: IBM PC/XT or higher compatibles; and MS DOS 3.X

Includes: 3.5" driver diskette and manual

Part No.	Description	Weight	Price
265375EX	Scorpius 22RB	0.8 lbs.	$39.95

Multimedia USB CF Card Reader

Here's an easy way to upload photos, files, movies, and data from your multimedia flash memory card to your computer! This flash memory card sits right on top of your desk and acts like a removable disk drive, treating your memory card like a diskette. Drag and drop files from the card to your computer and vice versa.

- 1 expansion slot for compact flash card
- USB-A male connector
- Compatible with PC's and MAC

NEW

Part No.	Product No.	Price
278125EX	SDDR-1201	$13.59

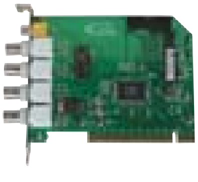
Wireless keyboard and mouse set you free and end desktop cable clutter.

SALE

Tired of tugging at the cables that tie your keyboard and mouse to your PC? Replace them with this completely wireless multimedia keyboard and mouse. Just plug the receiver into two PS/2 ports on your PC, install the software, and you're jamming. The system uses radio frequency (RF) communications technology, not infrared like many other wireless keyboards. So you don't have to worry about staying within line-of-sight of the receiver. In fact, you can use the keyboard and mouse up to 3' away. Keyboard includes 16 Internet and media hot keys. Opto-mechnical mouse features 3 buttons and scroll wheel, 400 dpi hardware high resolution. Includess 2AA batteries for keyboard; 2AAA batteries for mouse, user's guide, multimedia drivers.

Part No.	Description	Price
233381EX	Wireless RF keyboard and mouse	$27.95

PCI Video Capture Card



This new high speed PCI video capture card provides superb digital images from multiple cameras and remote surveillance. High-resolution digital color image storage and management with real-time video observation capability. No need to watch endless hours of recordings of nothing, you can choose to be alerted by email when the built-in motion detector is activated.

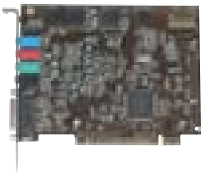
- Input signal: 4 video, 1 audio synchronized mono (with sound card) • Enhanced MPEG4 format
- Display & record: 60 frames per second (per card)
- Record Mode: event/continuous/scheduled
- Display: 1/4/9/16/full screen • Time/date stamp
- Color adjust: adjustable light, contrast, hue, saturation
- Resolution: 160 x 120 up to 640 x 240
- Multitask: monitoring, recording, PTZ control, remote, back-up • Size: 4.9"L x 3.6"H
- Storage: HDD, VDRAM, CD-RW, DAT, ZIP
- Support internet monitoring: client software, Explorer, or Windows® Media Player

Includes: CD-ROM software and drivers

Minimum system requirements: Pentium® III/ 800MHz, 128 RAM, 32M AGP video card or above

Part No.	Product No.	Price
262019EX	EDV-XVIEW4	$237.55

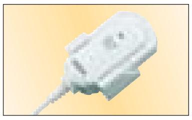
PCI 32-Bit Sound Card



Have your game and music content come alive using this analog four-speaker output - even if your sound source doesn't support 3D sound! Utilizes the same EMU10K1 audio processor as the Sound Blaster Live, the most powerful audio chip available today. This translates into all-around fantastic sounding audio experience with higher frame rates for your games and more bandwidth for 3D audio. Microsoft Windows® NT 4.0 and Windows® 95 / 98 operating system compatible.

Part No.	Description	Price
249404EX	PCI 32-bit sound card	$36.95

Hands-Free Condenser Microphone



- Cord length: 8'
- Connector: 3.5mm male stereo plug
- Size: 1.9"L x 1.2"W x 0.3"H
- One-year warranty

Part No.	Description	1	10
135247EX	Microphone	$4.49	$3.99

It's a Summer Extravaganza!

We have lowered prices, offering you savings of 15-30%. Be sure to thumb through our catalog and look for these specially marked prices. Supplies are limited so act fast!

Color CCD Camera

Sony Chipset

- 1/4" Sony super HAD CCD sensor • Furnished mini lens: 3.6mm
- NTSC system with 510(H) x 492(V) • Signal to noise ratio: >48dB
- Supports these functions: auto electronic shutter (AES), auto iris control (AIC), auto gain control (AGC), auto white balance (AWB), back light compensation (BLC) & flicker less (FL) • 330 TV lines
- Video drive iris control; high/low switchable auto gain control; on/off backlight compensation
- Internal, negative synchronous system

Requires: 12VDC @ 120mA power supply (recommend P/N 100095EX, pg 90)

Includes: Power/signal cable & mounting hardware

Part No.	Description	Video Output	Minimum Illumination	1	10
213436EX	Enclosed color camera	1Vp-p; 75Ω	0.5 lux @ f2.0	$179.95	$161.95

Log on today!
www.Jameco.com

5.6" Color TFT Monitor

NTSC Format

- TFT color LCD display
- 224 x 640 pixel display resolution
- Built-in 1 watt speaker
- Brightness, color and volume adjustments
- Video input: 1.0Vp-p; 75Ω
- Audio input: 2Vp-p; 2kΩ
- Size: 6.1"W x 4.8"H x 1.2"D • Weight: 2.6 lbs.

Includes: RCA cable, mounting stand with hardware and 12VDC @ 500mA power supply

Part No.	Description	1	10
201702EX	5.6" TFT color monitor	$279.95	$259.95

15" SVGA Color Monitor†

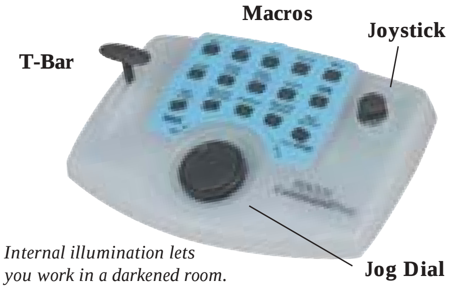
† Refurbished

- 0.28mm dot pitch
- Res.: 1280 x 1024 @ 60Hz
- Digital panel control
- Input voltage: 100-240VAC, 50/60Hz (auto switching)
- Power, contrast, brightness, horizontal and vertical size position, recall and trapezoid front control
- HDDB15 male connector • UL/CSA/TUV approved
- Size: 14.5"W x 16"D x 14.6"H • Weight: 45 lbs.

Requirements: IBM PC/XT or higher compatibles

Includes: Power cable, tilt and swivel base

Part No.	Description	1	10
153306EX	13.5" monitor viewable †	$99.95	$89.95



Internal illumination lets you work in a darkened room.

Faster, easier video editing at a fantastic price!

Create better videos faster, and have more fun doing it. The ProVideo Editing Controller system combines the most frequently used multimedia controls into a single customizable console that makes your favorite applications work together as one. Assign complicated multi-key sequences to any of the 15 keys, joystick, fader bar or jog wheel, and execute them with one touch. Switch between applications automatically as you work. Comes with VideoWave 4.0 editing software which includes templates for all popular applications, and you can save your own templates for virtually any application. Requires Windows® 98+ or Mac 8.6+. Includes USB cable. (Mac software not included. Download at www.Jameco.com)

Part No.	Description	Price
220329EX	Pro-video editing controller	$29.95

Product Specifications:

- Frequency response 110Hz - 18kHz +/- 3dB
- Input impedance: 10KΩ
- Voltage: 110V
- Size speaker: 5.4"H x 2.8"W x 4.6"D
- Size subwoofer : 6.0"H x 4.3"W x 5.4"D
- Weight: 3.14 lbs.

Super-size sound for your PC, at drive-through prices!

You'll enjoy crisp highs and booming bass when you add this economical but feature-packed set of magnetically-shielded speakers to your computer system. The satellite speakers deliver big stereo sound in a small package that will complement any desktop. And the compact subwoofer discreetly belts out the bass to make your music and gaming experiences the best they can be. User-friendly features include trouble-free A / C power, convenient on / off and volume controls, and a small, classy footprint for flexible installation.

Part No.	Description	*Was ~~$14.95~~* Price
233390EX	Powered subwoofer system	$10.49

PCMCIA RS-232 Interface

PC card / PCMCIA-based serial port card.

- Low cost single port RS-232 interface
- Uses 16550 UART • 5, 6, 7 or 8 data bits
- Odd, even or no parity
- 115k baud data rates
- Configured as COM1, COM2, COM3 or COM4
- PCMCIA type II compliant

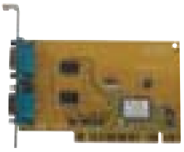
SALE

Includes: 1' cable

Part No.	Description	Price
164451EX	PCM-COM232 card	$97.95

PCI High-Speed Multi-Port Serial I/O

Dual 16C650 Serial Ports (2) DB9M Connectors



- 32-byte FIFO
- Plug & Play compatible
- Standard RS-232 interface
- Transfer rate: up to 921kb/sec.
- Supports IRQ sharing

Includes: Manual and drivers on CD-ROM & floppy

System requirements:
486 and higher compatible, Windows® 95/98/NT/2000

Part No.	Description	Price
172005EX	2-port PCI serial	$48.45

PCI Ultra High-Speed I/O

Serial 16C550 and Parallel Port

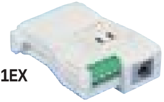
169594EX

- 32-bit PCI bus with PCI bus 2.1 specification compliant
- Serial ports are software configurable w/ throughputs up to 921.6kbps
- BPP/SPP mode compliant
- Windows® 95/98/NT 4.0 drivers supported

169594EX: 2 serial DB9M on card and 1 parallel DB25F panel bracket assembly

Part No.	Description	Price
146667EX	Dual serial (16C550)	$38.95
169594EX	2 serial (16C550) and 1 parallel	59.95

RS-232 to RS-485/422 Bidirectional Converters



117701EX

- Cable length: 4000' max.
- Data rate: 1MB/second
- 4-wire full duplex or 2-wire half duplex
- Controlled by RTS signal
- Point-to-point and multidrop operations
- RS-485: terminal block & RJ11 connections
- RS-232: DB25 female connector • Input: 110VAC

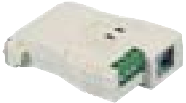
197931EX: port powered (Power adapter not included)
• Data rate: 100kbps

122956EX: features RS-485SI optical isolation: 2000V

Includes: 9VDC @ 300mA power adapter

Part No.	Description	Price
117701EX	RS-232-485/422	$57.95
197931EX	RS-232-485/422	69.95
122956EX	RS-232-485/422 OPT ISO	119.99

Short Haul Modem



- Up to 38,400 baud
- Will communicate over 6.3 miles of cable
- No external power required
- DCE/DTE selectable
- Xon-Xoff or hardware handshaking
- RS-232 interface (DB25 female)

Part No.	Description	Price
116581EX	Short haul modem	$29.95

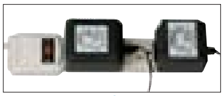
Bidirectional Non-Buffered Serial-to-Parallel Converter

- Bidirectional conversion of parallel and serial signals
- Serial interface: hardware handshake RTS/CTS, software handshake XON/XOFF; DCE/DTE selectable; parity: odd, even, or no parity; data bits: 7, 8
- Connectors: one DB25 female and one Centronics 36-pin male
- Baud rate: 300 to 38400bps • Stop bits: 1 or 2
- Size: 4.0"L x 2.5"W x 1.0"H • One-year warranty

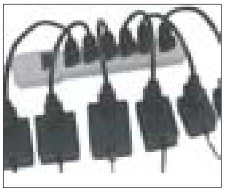
Includes: AC adapter (9VAC @ 200mA) and manual

Part No.	Description	Weight	Price
116935EX	Bidirectional converter	0.8 lbs.	$49.95

Power Strip Outlet Saver



Before
Four Outlets Blocked



After
Every Outlet is Usable

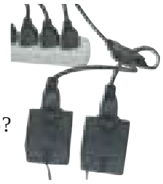
199777EX

With our high quality power strip outlet saver, you can use all the outlets on your surge suppressors, UPS, and outlet strips. Just plug a bulky power adapter into this cable and free up your other outlets.

- Cord type: SVT • Cord length: 1'

Part No.	Description	1	10
199777EX	AC Power cord (black)	$1.69	$1.55
208338EX	AC Power cord (beige)	1.69	1.45

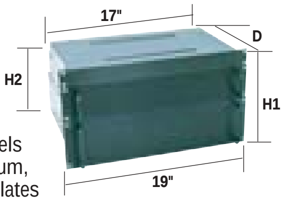
Power Strip Saver Double Outlet



Get full use of your power strips. Plug those bulky adapters into these cables and plug the cables into the power strip. Need the extra adapter to be plugged into the power strip? Use the "Y" power strip saver to add an extra adapter.

Part No.	Description	1	10
208346EX	Power strip saver	$2.89	$2.75

19" Rack Mount Enclosures



Perfect for equipment setup in home, studio or laboratory.

- Ventilation holes on all sides
- Front and back panels are steel w/ aluminum, pre-punched face plates
- Top, bottom, sides durable 0.035" steel
- Front panel: 0.12" Thick • Black front panel
- All enclosures have handles except P/N 132812EX

Includes: Mounting screws

Part Number	Dimensions (In.)			Weight (lbs.)	Pricing	
	H1	H2	D		1	10
132812EX	1.73	1.25	9.75	6.2	$39.95	$35.99
132821EX	3.46	3.0	9.75	7.9	47.95	43.49
132839EX	3.46	2.88	11.75	9.1	53.95	48.59
132847EX	5.22	4.75	11.75	10.6	63.95	55.99
132855EX	5.22	4.75	13.50	11.8	73.95	66.95

Removable HD Rack and Insert

196040EX

- For quick drive swapping
- Removable storage for 3.5" IDE drive
- Power LEDs
- Keylock for security

196040EX:

- Size: 5.8"W x 8.5"D x 1.5"H
- Weight: 1.2 lbs.

196031EX: • Size: 4.1"W x 7.5"D x 1.6"H • Wt: 0.8 lbs.

Includes: Inner cable with IDE connector

Part No.	Description	1	10
196040EX	IDE rack w/ insert	$27.95	$20.95
196031EX	Insert for 196040EX	19.95	16.99

External IDE HDD Enclosure with Parallel Interface

External HDD enclosure for IDE hard drives with a parallel port interface for connecting to a PC or laptop. No drivers needed. Windows® 98 and above will automatically detect hard disk drive.

- Parallel port interface
- Front panel green LED indicator
- On/off power switch
- Built-in fan and 110V power supply

Part No.	Description	1	5
249316EX	HDD external enclosure	$19.95	$15.95

Keep dangerous spikes and surges out of site, and out of mind!

Cable/ satellite/ antenna connection

SALE

Protect your valuable equipment as you eliminate clutter with this easy-to-install surge protector. This unit is a direct replacement for your existing AC wall plate; no wiring is required. Your cable / satellite / antenna connection and two outlets are fully protected against damage from harmful electrical spikes and surges. Two safe-operation lights ensure correct installation and active protection.

Part No.	Description	Price
235002EX	RCA universal surge protector	$9.95

Guard against power spikes and surges as you protect your modem / fax / phone system from harm. No complicated wiring is required; this easy-to-install surge protector is an effortless, plug-in replacement for your existing AC wall plate.

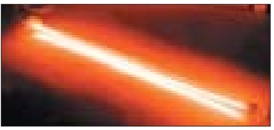
Simply plug in your RJ11 cable for added security

Part No.	Description	Price
234991EX	RCA universal surge protector for phone/fax	$9.95

Modding

"Modding" is turning your PC into an electronic work of art. Jameco now has the lighting, windows, LED fans, lighted USB and rounded cables for a modder to truly impress. Get started now and turn your PC into the king of LAN parties or just the coolest PC on the block!

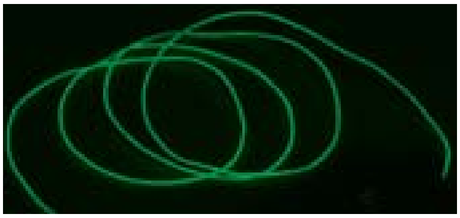
Stock up on these kits, then light up your next LAN party!



Make your PC the envy of the neighborhood with cool-running, brilliant cold-cathode light! Available in super-bright green, red, and blue, these kits add class and status to your tower with ease. Each kit plugs directly into an open power supply connector, and includes dual outputs for an extra bulb. A PCI bracket switch provides convenient on / off control. Choose your colors, and get the party started!

Part No.	Description	Price
263257EX	Cold cathode light kit-blue	$19.95
263265EX	Cold cathode light kit-red	19.95
263273EX	Cold cathode light kit-green	19.95
263290EX	Light bulb for second output-blue	10.95
263302EX	Light bulb for second output-red	10.95
263281EX	Light bulb for second output-green	10.95

Four-and-a-half feet of flexible fluorescent fun!



Imagine the possibilities! You can wrap this safe, cool "neon" wire around anything you want to, transforming ordinary objects with high-tech, light-up special effects. Bikes, scooters, musical instruments, models, science-fair displays, presentation boards, anything you want to supercharge with visual pizzazz can now take on a brilliant glow. Available in green, blue, red and yellow, and portable-powered by 2 AAs. You'll want all four colors for your creations!

Part No.	Description	Price
263484EX	Electroluminescence wire-blue	$21.95
263505EX	Electroluminescence wire-green	21.95
263492EX	Electroluminescence wire-red	21.95

Maintain your PC's cool, with style!

NEW

Outfit your desktop PC with this 4-channel fan controller, and you'll be in full control of your computer's cooling power and noise level. Bright multi-color LED ring-lights surround each of the front-panel knobs, adding an amazing flair to your prize machine. Installation is easy: the aluminum controller features a standard "U" type housing, high per-fan capacity (15 to 18 watts!), 3-pin to 4-pin / 4-pin to 3-pin adaptors, and plug-in ease of installation (no need to cut wires). Slip one into an empty 5.25" external drive bay, and achieve a whole new level of cool!.

Part No.	Description	Price
285579EX	4-channel fan controller	$19.95

Color coordinate your MOD computer with these color fan grills!

You have a new MOD computer with colored lights, controls, keyboard, mouse and case but you still have that same old black or metal fan grill. Give life to your existing fans with these new acrylic fan grill with color LED's. The LED's on the multi-colored fan grill changes to 7 different colors. Choose from four different colors. Now you can have a complete MOD computer that will be the envy of all. Fits fans with 80mm mounts.

NEW

Part No.	Description	Price
285552EX	Green LED fan grill	$3.45
285544EX	Red LED fan grill	3.45
285561EX	Blue LED fan grill	3.45
285536EX	7 color LED fan grill	3.95

Show off your mods in acrylic style!

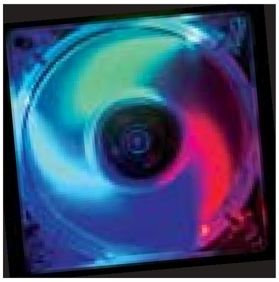
Easy as 1-2-3.
Just choose your style!

Why replace your case? With these easy, do-it-yourself kits, you can create a classy clear acrylic window in your trusty PC in the trendy shape of your choice. In mere minutes you can install a square, rectangular or L-shaped portal to show off your interior cold-cathode lights, glowing fans and illuminated cables. All materials are included, and detailed step-by-step instructions will ensure expert results.

Square also available!

Part No.	Description	Price
263054EX	Computer window kit L-shape	$24.95
263134EX	Computer window kit rectangle-shape	11.49
263118EX	Computer window kit square-shape	15.49
18809EX	Nibbling tool to cut case	7.95

Put some flash in your fan!



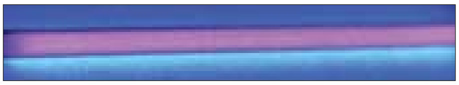
Everyone will go hog-wild with our tri-color LED fan!

Also available in red, blue & green!

No super-hot computer mod is complete without these high-efficiency, ball bearing quiet and colorful LED case fans. Choose from 4 LED colors: ruby red, bold blue, groovy green, or go hog-wild with a tri-color fan. Installation is screwdriver-easy; just remove your old, boring fans and pop these colorful attention grabbers into place. These fans are the perfect addition for your modding creation.

Part No.	Description	Price
263020EX	LED case fan tri-color with grill	$9.95
263011EX	LED case fan blue with grill	9.95
262991EX	LED case fan green with grill	9.95
263003EX	LED case fan red with grill	9.95

Cold-Cathode Lighting



Add flourescent color to your projects, computer case, car and other displays with these economical lights. Now you can easily and affordably mount these 4" light tubes to add cool cold-cathode effects and give your display a richer, trick look and feel. Optional power supply below converts 12VDC input into 180-800V output needed by lights.

Part No.	Description	Price
239581EX	Black light	$9.95
239572EX	Blue light	9.95
239599EX	Green light	9.95
239601EX	Pink light	9.95
239610EX	White light	9.95
239628EX	Yellow light	9.95
239636EX	Power supply for above	9.95

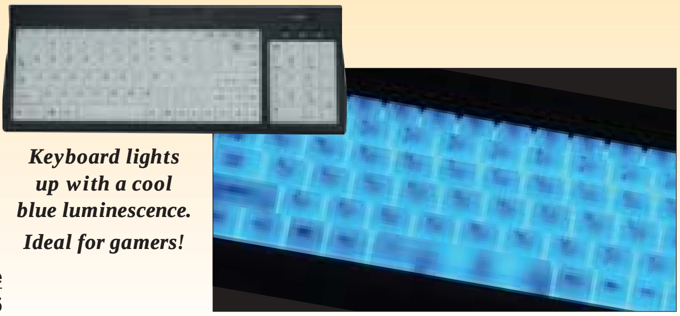
Tell us about the products you would like us to offer. Send all request to:
AtHome@Jameco.com

Work or play at your PC under any lighting conditions!

Your friends will glow with envy when they see this unique and trendy keyboard. Lit with a cool blue luminescence, all keys on this PS/2 peripheral are instantly identifiable, even in total darkness. Why break the mood of your favorite game with harsh overhead lighting when you can keystroke with perfect, futuristic, illuminated accuracy?

- Size: 15.3"L x 5.9"W x 1.3"H
- Weight: 1.7 lbs.

Part No.	Description	Price
235563EX	Illuminated PS2 keyboard	$79.95



Keyboard lights up with a cool blue luminescence. Ideal for gamers!

Round neon cables light the way to PC style and performance!

Flat cables are out, and cool light-up round cables are in! Now you can reduce internal cable clutter and heat build-up with these outstanding replacements. The EIDE cable supports two devices and is 80-wire/40-pin equipped, so it's ready for fast Ultra66/100/133 applications. And both add a radical glow to your PC's interior!

Part No.	Description	Price
263169EX	18" light floppy cable	$12.95
263151EX	24" light ATA133 EIDE cable	23.95

Transform USB connections from beige to beautiful!

Boring cables are a thing ofthe past with these new 6 feet, colorful USB beauties. Choose your colors (red, white, blue, orange and green) and cable types and replace all your old connections with new, light-enabled technology. USB 2.0-ready and protected by a lifetime warranty, these cables are ready for the future. Color-code your connections today, and get your PC out of the dark ages!

Part No.	Description	Price
262588EX	USB 2 cable orange	$5.95
262431EX	USB 2 cable white	5.95
262596EX	USB 2 cable white extension	5.95
262457EX	USB 2 cable green	5.95
262609EX	USB 2 cable multi-color	8.95
262570EX	USB 2 cable blue	5.95
262617EX	USB 2 cable blue extension	5.95
262406EX	USB 2 cable red	5.95
262641EX	USB 2 cable red extension	5.95

Turn your mild-mannered PC into "SuperMod"!

You'll be the life of the LAN party with this see-through sensation! Why settle for a small side-window, when you can show off every square inch of your PC's interior? Kit assembly is easy (and fun!), and the result is an eye-catching desktop masterpiece in clear acrylic. There's plenty of space for your gear: Five exposed 5.25" drive bays, seven 3.5" drive bays (two exposed), and five 80mm fan positions. Add your power supply, ATX motherboard, drives, custom lighting, cabling and fans, and you'll be the proud owner of the most unique and classy PC ever!

Part No.	Description	Price
285448EX	Clear ATX computer case	$84.95

USB-A to Joystick (DB15) Adapter

- Fully compatible with any 15-pin game port PC game controller
- Mode switch selector for maximum compatibility and flexibility
- USB Plug & Play
- Input connector: USB-A male
- Output connector: DB15-pin female connector
- Size: 3.2"L x 2.3"W x 1.3"H

System requirements: 586 or higher compatible; available USB-A port or Hub; Windows® 98 or higher

Includes: Manual and 3.5" drivers

Part No.	Description	Price
189510EX	USB to game port adapter *Was ~~$35.95~~*	$21.55

Removable HD Rack and Insert

- For quick drive swapping
- Removable storage for 3.5" IDE drive
- Power LEDs
- Keylock for security

196040EX:
- Size: 5.8"W x 8.5"D x 1.5"H
- Weight: 1.2 lbs.

196031EX: • Size: 4.1"W x 7.5"D x 1.6"H • Wt: 0.8 lbs.

Includes: Inner cable with IDE connector

Part No.	Description	1	10
196040EX	IDE rack w/ insert	$27.95	$20.95
196031EX	Insert for 196040EX	19.95	16.99

USB Front Panel Access Port

Tower not included

Tired of crawling under your desk or standing on your head to plug something into your USB port? With these 3.5" front panel USB access ports, You can enjoy the easy upfront access to all of your USB ports without moving the PC.

- 4 USB; Line-In; Line-Out

Part No.	Description	Price
213532EX	Front panel port	$18.95

External IDE HDD Enclosure with Parallel Interface

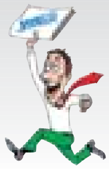
External HDD enclosure for IDE hard drives with a parallel port interface for connecting to a PC or laptop. No drivers needed. Windows® 98 and above will automatically detect hard disk drive.

- Parallel port interface
- Front panel green LED indicator
- On/off power switch
- Built-in fan and 110V power supply

Part No.	Description	1	5
249316EX	HDD external enclosure	$19.95	$15.95

Refer a Friend

Are you tired of loaning your latest copy of the Jameco catalog to a friend or business associate? If they can't take a hint just visit our website at: www.Jameco.com/CatReferral. We'd be happy to send them a catalog too!

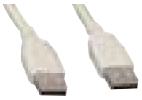


*See pages 66–67 for the **latest** and **fastest** Intel® motherboards and processors, Seagate hard drives, and Kingston memory.*

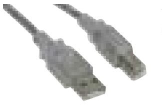
Seagate Kingston intel

USB 2.0 Cables

SALE



USB-A (M) to USB-A (M)



USB-A (M) to USB-B (M)

USB-A (M) to USB-A (F)

- Higher transfer rate up to 480Mbps

USB-A Male to USB-A Male

Part No.	Description	1	10	25
229681EX	6' cable beige	~~$6.49~~ $1.65	$1.49	$1.39
222033EX	6' cable black	~~$6.49~~ 1.65	1.49	1.39
229551EX	6' cable clear	~~$6.49~~ 1.65	1.49	1.39
229690EX	10' cable beige	~~$7.99~~ 1.89	1.75	1.65
222041EX	10' cable black	~~$7.99~~ 1.89	1.75	1.65
229569EX	10' cable clear	~~$7.99~~ 1.89	1.75	1.65

USB-A Male to USB-B Male

Part No.	Description	1	10	25
229711EX	3' cable beige	~~$5.99~~ $1.55	$1.39	$1.29
222607EX	3' cable black	~~$5.99~~ 1.55	1.39	1.29
229585EX	3' cable clear	~~$5.99~~ 1.55	1.39	1.29
229729EX	6' cable beige	~~$6.49~~ 1.65	1.49	1.39
222009EX	6' cable black	~~$6.49~~ 1.65	1.49	1.39
229593EX	6' cable clear	~~$6.49~~ 1.65	1.49	1.39

USB-A Male to USB-A Female

Part No.	Description	1	10	25
229770EX	6' cable beige	~~$7.99~~ $1.65	$1.49	$1.39
222068EX	6' cable black	~~$7.99~~ 1.65	1.49	1.39
229622EX	6' cable clear	~~$7.99~~ 1.65	1.49	1.39
229788EX	10' cable beige	~~$9.99~~ 1.89	1.75	1.65
222076EX	10' cable black	~~$9.99~~ 1.89	1.75	1.65
229631EX	10' cable clear	~~$9.99~~ 1.89	1.75	1.65

USB to Serial Adapter with Prolific Chipset

This USB serial adapter provides an external Plug-and-Play RS-232 port for computers, notebooks, and handheld computing devices. Provides high-quality serial connections at transfer rates of more than 500kbps for cell phones, PDAs, digital cameras, modems and ISDN terminal adapters.

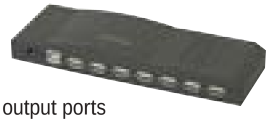
- Supports RS-232 serial interface, automatic handshake mode, remote wake-up and power management
- Provides a 96-byte buffer for each upstream and downstream data transfer
- Has a 7" cable with DB25 male connector and a 14" cable with USB-A connector

System requirements: Windows®98/2000, USB host controlled installed in the system

Part No.	Description	1	5
213006EX	USB-A to serial converter	$29.95	$27.95

External 7-Port USB Hub

SALE

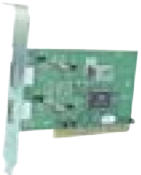


- 7 USB-A female output ports
- USB-B female root port
- Allows you to attach 127 USB devices to your PC
- LED indicators for port, status, and power
- Plug & Play compatible • Size: 7.9"L x 2.8"W x 1.1"H

Includes: 6VDC power adapter and USB-A male to USB-B female cable

Part No.	Description	Wt. (lbs.)	Price
191450EX	7-Port USB hub	2.6	$34.19

2-Port USB-A PCI Card

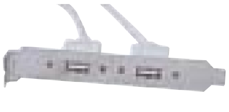


- Plug & Play compatible
- Uses VIA VT83C572 controller chip
- USB specification V.1.1 compatible
- USB legacy BIOS supports
- Operates in USB-aware operating system (Win® 95, 98)

Includes: Manual

Part No.	Description	1	10	25
155299EX	PCI USB *Was* ~~$24.99~~	$19.55	$17.59	$15.85

USB-A Female Cables & Bracket



- Supports data transfer rates of 12Mbps
- Connection of two devices
- Dual USB-A female connectors • 8" long

Part No.	Description	1	10
144813EX	USB-A panel mount	$6.95	$6.25

USB Gender Adapter

USB-A to USB-B

- USB-A (female) to USB-B (male)

Part No.	Dimensions	1	10
169375EX	1.7"L x 0.6"W	$6.95	$6.35

USB Cables

USB-A Male to USB-B Male

175417EX

Part No.	Description	1	10
175417EX	3' cable	$1.29	$1.15
169359EX	6' cable	4.95	4.49

Network/Communication Coaxial Cables and Connectors

RG Type Bulk Coaxial Cable

RG58A/U (50Ω): Nominal cap.: 27pF/ft.; center resist.: 10.4Ω/kft. @ 77˚F
RG174/U (50Ω): Nominal capacitance: 30.8pF/ft.; center resist.: 97Ω/kft. @ 77˚F

- **Prepackaged and priced in increments of 100' or 1000'**

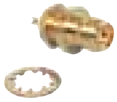
Part Number	Mfr. Cross Ref. No.	Description	100 ft.	1000 ft.
116898EX	RG58A/U	For ethernet, oscilloscopes (stranded 20AWG)	$19.00	$150.00
112037EX	RG174/U	For ethernet, oscilloscopes (stranded 26AWG)	19.00	169.00

SMA Connectors

157972EX

153365EX

145381EX



153285EX

160021EX

160012EX

188509EX

188525EX

- Cellular phone, data communication, instrumentation and video • 50Ω impedance
- Plating gold (**153285EX:** plating nickel) • Temperature range: -65˚C to 165˚C
- Frequency range: 0-18GHz

Part No.	Description	1	10
157972EX	SMA 50Ω crimp type **M** plug connector (RG-58)	$3.99	$3.59
153365EX	SMA 50Ω crimp type **M** plug connector (RG-174)	4.39	3.95
145381EX	SMA straight **F** PCB mount connector, 4 legs	5.25	4.75
153285EX	SMA bulkhead solder **F** w/ washer, rear mount (RG-58/174)	3.49	3.15
160021EX	SMA **F** panel mount connector, 2 mounting holes*	3.99	3.59
160012EX	Panel mount feed thru connector **F – F**	4.99	4.49
188509EX	SMA PCB straight jack	3.69	3.35
188525EX	SMA PCB right angle jack	5.95	4.95

***160021EX:** Solder cup

BNC/RCA Adapters

SALE

Part No.	Description	1	10
114788EX	RCA female to BNC male adapter	$1.35	$1.05
114753EX	RCA male to BNC female adapter	1.59	1.45
114770EX	BNC female to "F" conn. male adapter	1.79	1.59

BNC Coax Connectors

BNC connectors are miniature, lightweight units designed to operate up to 11GHz and typically yield low reflection up to 4GHz.

SALE

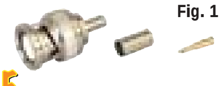


Fig. 1

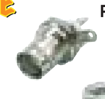


Fig. 2

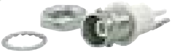


Fig. 3

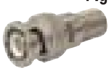


Fig. 4

Part No.	Fig.	Description	1	10
71482EX	1	BNC M w/ pin & ferrule (RG58)	$1.65	$1.49
112109EX	1	BNC M w/ pin & ferrule (RG174)	1.59	1.45
135618EX	2	BNC M w/ pin & ferrule (RG6)	.89	.69
71271EX	2	BNC M w/ pin & ferrule (RG59/62)	.81	.66
71589EX	2	BNC F panel mount (UG-1094A)	1.49	1.35
111561EX	3	BNC F isolated bulkhead	2.29	1.99
174254EX	4	BNC M to F conn. F	1.99	1.59

SMA/SMB 50Ω Coax Cables

Fig. 1: SMA male to SMA male
Fig. 2: SMA male to SMA right angle male

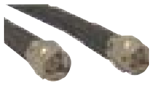


Fig. 1

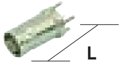
Fig. 2

Part No.	Cable	Fig.	Length (ft.)	1	10
159370EX	RG58	1	2	$4.49	$3.99
159396EX	RG58	1	6	5.49	4.89
169800EX	RG174	1	0.5	5.59	4.99
163854EX	RG174	1	1	4.49	3.95
153381EX	RG174	1	2	4.95	4.29
153390EX	RG174	1	4	5.49	4.75
159450EX	RG174	1	4	6.79	6.15
175126EX	RG174	2	0.5	4.49	3.95
175134EX	RG174	2	1	4.95	4.25

BNC PCB Connectors

- **146528EX:**
  Ideal for applications where multiple insertions require a connector which can endure the stress of high torque
- **146510EX/161656EX:**
  Maintains matching impedance at 50Ω & 75Ω. Ideal for LAN cards & precision video

146528EX



146510EX

161656EX

Part No.	Description	Length (L)	1	10
146528EX	BNC straight metal	.719"	$2.79	$2.49
146510EX	BNC right-angle plastic insulation	1.37"	1.95	1.75
161656EX	BNC right-angle metal	.861"	2.29	1.99

Cat 5e Crossover Cable

- 4-pair
- 8P8C
- UTP
- Connect 2 PCs without a hub
- 24AWG (7 x 43) stranded
- Strain relief RJ45 connectors

Part No.	Description	1	10
169261EX	10' cable RJ45, gray	$6.95	$6.25

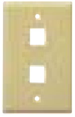
RJ45 Keystone Wall Plates

SALE

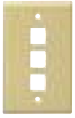
- Color: ivory
- Size: 2.8"W x 4.5"H

Part No.	No. of ports	1	10
195549EX	1	$1.25	$1.15
195557EX	2	1.25	1.15
195565EX	3	1.25	1.05
195573EX	4	1.25	1.06

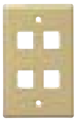
195549EX



195557EX



195565EX



195573EX

Modular Jack Boxes and Wall Plate

Add phone lines and network connections with our modular jack boxes and wall plate. Screw down terminals and color coded wires for easy installation and troubleshooting.

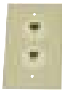


Fig. 1 (72311EX)

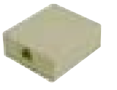


Fig. 2 (71651EX)

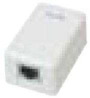


Fig. 3 (213031EX)

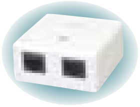
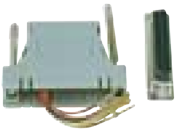


Fig. 4 (213049EX)

Part No.	Description	Fig.	Dimensions (W x H x D)	1	10
72311EX	6P6C & 8P8C double wall jack plate w/ jacks (beige)	1	2.8" x 4.5"	$1.95	$1.75
103464EX	6P4C adhesive jack RJ11 (beige)	2	2.0" x 2.2" x 0.9"	1.39	1.19
71984EX	6P6C adhesive jack RJ11 (beige)	2	2.0" x 2.2" x 0.9"	1.39	1.19
71651EX	8P8C adhesive jack RJ45 (beige)	2	2.0" x 2.2" x 0.9"	1.95	1.65
213031EX	8P8C adhesive jack RJ45(single, white) (CAT 5e)	3	1.5" x 2.4" x 1.1"	3.29	2.99
213049EX	8P8C adhesive jack RJ45(dual, white) (CAT 5e)	4	2.4" x 2.4" x 1.1"	4.15	3.75

RS-232-to-RJ11/RJ45 Modular Jack Adapters

66181EX

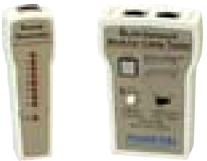


66237EX

Change your RS-232 port to a RJ11 or RJ45 modular jack. This will allow you to use modular phone cable rather than RS-232 cable, thus simplifying networking applications. Comes complete with wiring and hardware.

Part No.	Mfr. Cross Ref.	Description	1	10
66181EX	G9P6	DB9 M-RJ11(6P6C)	$2.59	$2.35
66190EX	G9P8	DB9 M-RJ45(8P8C	2.89	2.65
114737EX	G9S4	DB9 F-RJ11(6P4C)	1.95	1.79
66211EX	G9S8	DB9 F-RJ45(8P8C)	2.99	2.69
66229EX	G25P6	DB25 M-RJ11(6P6C)	2.95	2.35
66237EX	G25P8	DB25 M-RJ45(8P8C)	2.99	2.69
204273EX	TMA-105	DB25 F-RJ11(6P4C)	1.95	1.75
66245EX	G25S6	DB25 F-RJ11(6P6C)	2.59	1.95
66253EX	G25S8	DB25 F-RJ45(8P8C)	2.89	2.59

Modular Cable Tester with Remote Terminator



Easily read correct pin configuration of 10baseT, 10base2, RJ45/RJ11 modular cables, 258A, TIA568A/568B, token ring, etc. Test installed cables either on wall plate or patch panel from a distance.

- Check for cable continuity, miswiring, open, short, grounding and pin configurations
- Cable adapters: RJ45 M-M, 2 RJ45M-BNCM & BNC F-F
- On-board connectors: 2 RJ45F (tester) and 1 RJ45F (remote)
- Size: 4.0"L x 2.5"W x 1.0"H (Main console)
- Size: 4.0"L x 1.3"W x 1.0"H (Remote) • Wt.: 0.7 lbs.

Includes: Manual and test cables

Part No.	Description	Price
145710EX	Modular cable tester	$84.95

More networking products
@ www.Jameco.com

Share printers, files, and DSL inexpensively through the phone wiring already in your home!

SALE

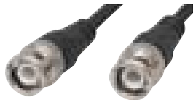
Back View **Front View**

Don't waste money on separate printers, modems and Internet connections. Install the AnyPoint Home Network, and let everyone share at speeds of up to 1Mbps.

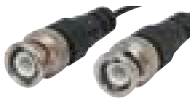
Multiple PC users in your house? Turn your home phone wiring into an instant network for sharing printers, files, modems, applications, DSL lines, Internet access, and for playing interactive games. This inexpensive solution lets computers up to 500 feet apart communicate over existing phone wiring. There's no drilling or cable snaking from room-to-room. And you don't lose a single phone jack or printer port. Installation is easy. The manual is excellent, and you get 90 days support free. Package includes hardware and software for networking 2 PCs: 2 adapters (Intel 21145 phone line/Ethernet LAN controller), 2 parallel cables, 2 phone cables, 1 CD-ROM. Purchase an additional package for each 1-2 PCs. Requires 486 PCs or higher, Windows® 95/98, 8 MB RAM, 18 MB hard disk space, parallel port for printer use. At least one PC must have CD-ROM drive, modem, and Internet access.

Part No.	Description	Price
220417EX	Any Point™ home network	~~$29.95~~ $19.95

BNC Coax Cables



11404EX



111472EX

RG58/U 50Ω Cables

SALE

- For Ethernet networks, oscilloscopes

Part Number	Mfr. Cross Ref. No.	Lgth (ft.)	1	10
102314EX	CRG58-1	1.5	$3.99	$3.49
11404EX	CRG58-3	3	4.29	3.89
102331EX	CRG58-6	6	4.39	3.99
180822EX	CRG58-10	10	4.49	4.59
169818EX	CRG58-15	15	4.95	4.46
102365EX	CRG58-50	50	9.49	8.54

RG174/U 50Ω Cables

- For Ethernet networks, oscilloscopes

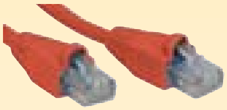
Part Number	Mfr Cross Ref. No.	Lgth (ft.)	1	10
111472EX	RG174U3	3	$3.85	$3.49
111481EX	RG174U6	6	4.59	4.15

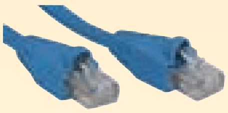
What is the difference between enhanced category 5e cable rated for 350 MHz and category 6 cable rated for 200 MHz?

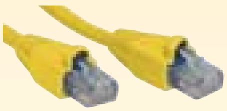
Category 5e cable is specified up to 350 MHz. Cables can be tested up to any frequency that is supported by the test equipment, but such measurements are meaningless without the context of applications and cabling standards.

The category 6 standard sets minimum requirements up to 200 MHz for cables, connecting hardware, patch cords, channels and permanent links, and therefore guarantees reasonable performance that can be utilized by applications.

New Cat 6 technology improves performance effortlessly.







The difference between category 5e and category 6 is in the transmission performance, and extension of the available bandwidth from 100 MHz for category 5e to 200 MHz for category 6. This includes better insertion loss, near end crosstalk (NEXT), return loss, and equal level far end crosstalk (ELFEXT). These improvements provide a higher signal-to-noise ratio, allowing higher reliability for current applications and higher data rates for future applications. Category 6 cables are 100% backward compatible with Cat 5 and Cat 5e systems.

Although category 6 and category 5e connectors may look alike, category 6 connectors have much better transmission performance. This means that a category 6 connector couples about 1/12 of the power that a category 5e connector couples from one pair to another pair. Conversely, one can say that a category 6 connector is 12 times less "noisy" compared to a category 5e connector.

Part No.	Description	1	10
219758EX	Cable black 3' ..... *Was ~~$6.29~~*	$2.79	$2.69
219766EX	Cable black 7' ..... *Was ~~$7.99~~*	3.99	3.87
219774EX	Cable black 14' ... *Was ~~$8.99~~*	6.59	6.37
219782EX	Cable black 25' ... *Was ~~$13.49~~*	9.39	8.92
219791EX	Cable black 50' ... *Was ~~$22.49~~*	14.29	13.58
219854EX	Cable blue 3' .... *Was ~~$6.29~~*	2.79	2.69
219862EX	Cable blue 7' .... *Was ~~$7.99~~*	3.99	3.87
219871EX	Cable blue 14' ..... *Was ~~$8.99~~*	6.59	6.37
219889EX	Cable blue 25' ..... *Was ~~$13.49~~*	9.39	8.92
219897EX	Cable blue 50' ..... *Was ~~$22.49~~*	14.29	13.58
219707EX	Cable gray 3' .... *Was ~~$6.29~~*	2.79	2.69
219715EX	Cable gray 7' .... *Was ~~$7.99~~*	3.99	3.87
219723EX	Cable gray 14' .... *Was ~~$8.99~~*	6.59	6.37
219731EX	Cable gray 25' .... *Was ~~$13.49~~*	9.39	8.92
219740EX	Cable gray 50' ..... *Was ~~$22.49~~*	14.29	13.58
219803EX	Cable green 3' ..... *Was ~~$6.29~~*	2.79	2.69
219811EX	Cable green 7' ..... *Was ~~$7.99~~*	3.99	3.87
219820EX	Cable green 14' ... *Was ~~$8.99~~*	6.59	6.37

Part No.	Description	1	10
219838EX	Cable green 25' .... *Was ~~$13.49~~*	$9.39	$8.92
219846EX	Cable green 50' .... *Was ~~$22.49~~*	14.29	13.58
219900EX	Cable red 3' .... *Was ~~$6.29~~*	2.79	2.69
219918EX	Cable red 7' .... *Was ~~$7.99~~*	3.99	3.87
219926EX	Cable red 14' .... *Was ~~$8.99~~*	6.59	6.37
219934EX	Cable red 25' .... *Was ~~$13.49~~*	9.39	8.92
219942EX	Cable red 50' .... *Was ~~$22.49~~*	14.29	13.58
220003EX	Cable white 3' .... *Was ~~$6.29~~*	2.79	2.69
220011EX	Cable white 7' .... *Was ~~$7.99~~*	3.99	3.87
220020EX	Cable white 14' ..... *Was ~~$8.99~~*	6.59	6.37
220038EX	Cable white 25' ..... *Was ~~$13.49~~*	9.39	8.92
220046EX	Cable white 50' ..... *Was ~~$22.49~~*	14.29	13.58
219951EX	Cable yellow 3' ..... *Was ~~$6.29~~*	2.79	2.69
219969EX	Cable yellow 7' ..... *Was ~~$7.99~~*	3.99	3.87
219977EX	Cable yellow 14' ... *Was ~~$8.99~~*	6.59	6.37
219985EX	Cable yellow 25' ... *Was ~~$13.49~~*	9.39	8.92
219993EX	Cable yellow 50' ... *Was ~~$22.49~~*	14.29	13.58

Modular Telephone/Printer Sharing Cables (Gray)

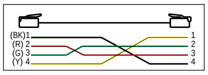
Low Cost Data/ Phone Cables

- RJ11 – 6P2C/6P4C for telephone or network
- RJ11 – 6P6C for telephone or printer sharing
- RJ45 – 8P8C for telephone or modem-dial-up use

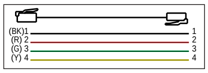
Style 1 – Reverse wiring for telephone systems
Style 2 – Straight wiring for networking/ printer sharing

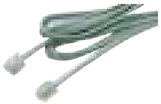
SALE

Style 1



Style 2

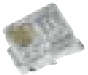


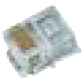


Part No.	Conn. Style	Type	Length	Pricing 1	Pricing 10
189940EX	1	RJ11-6P2C	7ft.	$.99	$.84
196226EX	1	RJ11-6P4C	7ft.	1.49	1.15
115553EX	2	RJ11-6P4C	7ft.	1.25	1.09
115545EX	1	RJ11-6P4C	25ft.	2.29	2.09

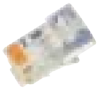
Part No.	Conn. Style	Type	Length	Pricing 1	Pricing 10
115588EX	1	RJ11-6P6C	7ft.	$1.55	$1.35
115617EX	2	RJ11-6P6C	7ft.	2.19	1.99
115676EX	2	RJ45-8P8C	7ft.	1.89	1.75

Modular Plugs


79290EX


79273EX

79281EX


119343EX

P = No. of positions C = No. of contacts
W/E = Western Electric type number

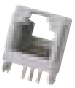
✻ Prepackaged: order in increments of 10, 100 or 1000

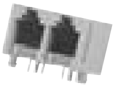
Part No.	Description	W/E	1	10	100
79290EX	6P4C (RJ11)	623	✻	$.12	$.11
79273EX	6P6C (RJ11)	623	✻	.22	.195
79281EX	8P8C (RJ45) (for stranded wire)	641	.35	.28	.24
119343EX	8P8C (RJ45) unshielded (for solid wire)	—	.49	.44	.35

Modular Jacks

151765EX

105945EX


115836EX


204177EX

124038EX

115844EX

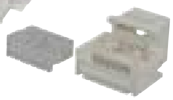
- PC mount
- Durability: 750 mating cycles
- Voltage rating: 150 volts AC max.
- Contact current rating: 1.5 amp max. @ 25°C

Part No.	Description	W/E	1	10
151765EX	6P4C (RJ11) side flange	AMP	$.45	$.43
105945EX	6P4C (RJ11) top flange	623	.62	.49
115836EX	6P6C (RJ11) side flange	—	.74	.67
204177EX	6P6C (RJ11) dual	—	1.49	1.35
124038EX	6P6C (RJ11) 6" leads	—	1.25	1.15
115844EX	8P8C (RJ45)	641	.48	.44

Modular Jacks

Punchdown Keystone Type

212943EX


213516EX

- Removable jacks used in wall plates (clip in)
- CAT 5e classification
- Punchdown type wiring connections with color coding
- Size: 0.57"W x 0.63"H x 1.23"D

RJ45: 8P8C **RJ11:** 6P6C

RJ45

Part No.	Color	1	10
195590EX	Red	$3.75	$3.55
195602EX	Yellow	3.75	3.55
195611EX	Green	3.75	3.19
195629EX	Black	3.75	3.55
195637EX	Ivory	3.75	3.19
212951EX	Blue	3.75	3.55
212943EX	White	3.75	3.55

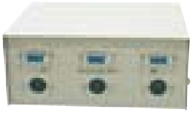
RJ11

Part No.	Color	1	10
213524EX	Black	$3.75	$3.55
213516EX	White	3.75	3.55

More @ Jameco.com

Keyboard/Monitor-to-PC Switch Box

HDDB15/5-Pin DIN Female

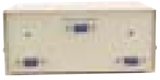


- 2-way switch box
- For 2 PCs connected to 1 keyboard and 1 monitor – diodes maintain keyboard in powered state
- Size: 6.0"L x 4.0"W x 2.3"H
- Weight: 1.3 lbs.

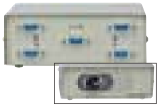
Part No.	Description	1	10
114155EX	2 computers	**$14.95**	**$13.49**

Serial Port-to-PC Switch Boxes

DB9 Female



79126EX



183417EX

- Connects 2 or 4 serial ports to a PC

79126EX:

2-serial port switch box
- Size: 6.0"L x 4.8"W x 2.5"H
- Weight: 1.2 lbs.

183417EX:

4-serial port switch box
- Size: 6.1"L x 4.0"W x 2.2"H
- Weight: 1.3 lbs.

Part No.	Description	1	10
79126EX	2-serial port switch box	**$9.95**	**$8.95**
183417EX	4-serial port switch box	**19.95**	**17.95**

Parallel Printer-to-PC Switch Boxes

DB25 Female

20095EX

20124EX

- Connects 2 or 4 PCs to one printer

20095EX: 2-PC switch box
- Size: 6.0"L x 5.8"W x 2.3"H
- Weight: 1.3 lbs.

20124EX: 4-PC switch box
- Size: 6.0"L x 4.0"W x 2.4"H
- Weight: 1.5 lbs.

Part No.	Description	1	10
20095EX	2 PC switch box	**$8.95**	**$7.95**
20124EX	4 PC switch box	**14.95**	**13.49**

RGB Video Cables

118068EX

SALE

- 75Ω coaxial cable; 6' or 10'
- Pin 1 red, pin 2 green, pin 3 blue, pin 14 white/black vertical, pin 13 gray horizontal
- 5 BNCs to HDDB15-pin male

Part No.	Description	1	10
73648EX	6' cable (black)	$19.95	$16.99
118068EX	10' cable (black)	31.95	27.15

VGA Monitor Cables

66173EX

- Connects video card to VGA monitor
- IBM PC/XT and higher compatibles
- HDDB15 male to male

Part No.	Description	1	10
66173EX	6' monitor cable	**$6.49**	**$5.89**
148523EX	10' monitor cable	**6.95**	**6.25**

More at www.Jameco.com

One simple tool and you have two computers at your command.

This two port switch box can access TWO computers from one keyboard, mouse, and monitor. No interface card or software to configure. Operation is as simple as pushing a button on the front panel and entering hot-key commands.

- Supports Microsoft® IntelliMouse, Logitech Net Mouse, etc.
- Supports operating systems DOS, Win 3.x, Win95/98/98SE/2000/ME, WinNT, Netware, Unix, Linux
- High VGA resolution
- Keyboard and mouse pluggable at anytime
- Hot-key function allows easy computer access
- Audible sound for switching port confirmation
- Port and console connectors: female PS/2 keyboard and mouse, female HDDB15 for video
- Size: 4.3"L x 3.0"W x 1.2"H
- Recommend gender changer, P/N 119301EX, pg 80, when ordering 216063EX and 204062EX.

Part No.	Description	1	10
216063EX	2-Port K/V/M switch box	**$69.95**	**$62.95**
204062EX	PS/2 cable	**16.95**	**15.29**

VGA Monitor Extension Cables

134041EX

66165EX

- Extends VGA monitor cable; HDDB15 male-to-female
- IBM PC/XT and higher compatibles

134041EX:
- HDDB15 female with hex nuts and HDDB15 male with thumbscrews

66165EX/148531EX: • Thumbscrews on each end

Part No.	Description	1	10
134041EX	6' screws/hex nuts	**$4.49**	**$3.95**
66165EX	6' thumbscrews	**6.59**	**5.95**
148531EX	10' thumbscrews	**7.49**	**6.79**

Computer Card Brackets

- For securing cards into bus slots
- Fits standard PC/XT/AT cases • Length: 4.75"
- See pg 41 for DB connectors

Part No.	Description	Fig.	1	10
11754EX	Blank back panel	1	**$1.79**	**$1.59**
101717EX	For DB9 connector	2	**1.79**	**1.59**
101733EX	For DB25 connector	3	**1.79**	**1.59**
101741EX	For DC37 connector	4	**1.79**	**1.59**
101830EX	For DB9/DB25 conn.	5	**1.79**	**1.59**

CD-ROM Audio Cables

127546EX

SALE

- 2 x 28

127546EX:
- Compatible w/ most CD-ROMs
- Connection from soundblaster to Sony/MPC2

168612EX:
- 3 connectors on each end of wire: 4-position (.100") housing connector; 4-position (.100") Molex-type keyed connector; 3-position (.100") Molex-type keyed connector
- Connection from SoundBlaster to Universal
- Use with Creative Labs, Sony or generic sound cards

Part No.	Length	1	10
127546EX	25"	**$2.95**	**$2.65**
168612EX	18"	4.95	4.45

ATX Power Supply 15" Extension Cable

- For use with ATX power supplies
- 20-pin ATX male and female connectors
- Color coded to ATX power supply code
- 15"L x 18 AWG (wires)

Part No.	Mfr. Cross Ref. No.	1	10
170237EX	ATX-400-RV	**$6.49**	**$5.85**

5.25" Disk Drive Power Splitter

- IBM PC/XT and higher compatibles
- Splits 4-line Molex male into 2 females

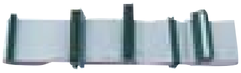
Part No.	Drive	AWG	Length	1	10
28353EX	5.25"	18	5"	**$2.95**	**$2.69**

Over 99% of our products are in stock! Place your order by 6PM EST for same business day shipping.

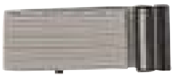
Disk Drive Cables

SALE

185084EX



32918EX

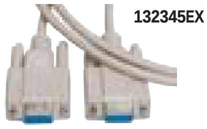


72805EX

175492EX

Part No.	Description	Cable Length	1	10
185084EX	34-pin header socket ribbon cable for floppy drive	25"	$1.19	$.99
32918EX	34-pin header socket ribbon cable for floppy to card	23"	3.49	2.99
72805EX	Two 40-pin header socket ribbon cable for IDE drive	18"	3.69	3.14
175492EX	40-pin header socket ribbon cable for ultra DMA66/100	17"	**6.95**	**6.25**

DB9 Extension Cables



132345EX

25700EX

- All lines connected straight through

132345EX/196365EX:
- DB9 female to DB9 female cable with thumbscrews

25700EX/148515EX/199638EX:
- DB9 male to DB9 female cable with thumbscrews

181665EX: • DB9 male to DB9 male cable

Part No.	Description	1	10
132345EX	6' F-F	$4.95	$4.49
199638EX	6' M-F (black)	4.49	3.95
25700EX	6' M-F	4.95	4.49
196365EX	10' F-F	6.95	6.25
148515EX	10' M-F	7.49	6.79
181665EX	10' M-M	6.95	6.25

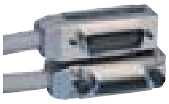
DB25 Extension Cables

67256EX

- All lines connected straight through
- Use to lengthen your standard serial cable or for switch box applications
- Thumbscrews to secure connectors
- Color: gray; except P/Ns **174001EX/175290EX:** black*

Part No.	Desc.	Weight (lbs.)	1	10
281551EX	3' M-M	0.4	$4.45	$4.25
174001EX	3' M-M*	0.6	4.79	4.35
65787EX	6' M-M	0.5	6.49	5.89
39538EX	10' M-M	0.7	6.95	6.29
179979EX	15' M-M	1.2	6.95	6.29
67070EX	25' M-M	1.4	10.95	9.95
164291EX	3' M-F	0.4	4.29	3.89
175290EX	3' M-F*	0.4	2.95	2.69
163133EX	5' M-F	0.6	5.29	4.75
67256EX	6' M-F	0.6	6.45	5.79
39511EX	10' M-F	0.7	6.95	6.29
101995EX	25' M-F	1.4	11.95	10.79

IEEE 488 Cables

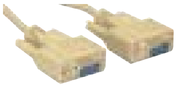


73154EX

A variety of cable lengths are offered to ensure that the IEEE system requirements are met (20 meters maximum length with a maximum of 15 devices). These cables are standard IEEE 488 cables with stackable 24-pin GPIB connectors on both ends.

Part No.	Description	Wt. (lbs.)	1	10
73154EX	1 meter	0.8	$36.49	$32.79
115781EX	2 meter	1.2	37.95	34.19
115801EX	4 meter	2.0	38.95	36.19

Serial Null Modem Cables



180697EX

180582EX

- Molded type connectors
- Weight: 0.4 lbs.
- Color: gray
- Length: 10'

180697EX/181403EX Pin outs:
1 & 6-4, 2-3, 3-2, 4-6 & 1, 5-5, 7-8, 8-7

180582EX Pin outs:
2-2; 3-3; 4-5 & 6; 5-7; 6 & 8-20; 7-8;
(Serial Printer Null Modem)

Part No.	Description	1	10
181403EX	6' DB9 F to DB9 F	$5.69	$5.09
180697EX	DB9 F to DB9 F	6.79	6.09
180582EX	DB25 M to DB9 F	6.69	6.05

DA15 Extension Cables

- Molded connectors
- Straight through
- Thumbscrews
- Color: gray (**237032EX**: black)

181286EX

Part No.	Description	Length	1	10
181286EX	DA15 M-M	6'	$5.49	$4.95
181358EX	DA15 M-F	6'	5.49	4.95
237032EX	DA15 M-F	8'	6.99	5.95

AT-to-PS/2 and PS/2-to-AT Keyboard Adapter Cables

- Color: beige

28003EX

28003EX:
- Connects AT-type keyboards to PS/2
- 5-pin female DIN to 6-pin male mini DIN

85500EX:
- Connects PS/2 keyboard to AT
- 6-pin female mini DIN to 5-pin male DIN connectors

Part No.	Length	Weight (lbs.)	1	10
28003EX	7.3"	0.6	$3.95	$3.49
85500EX	11.3"	0.8	5.39	4.85

PS/2 Keyboard Extension Cables

28548EX

- Color: beige
- PS/2 computers
- 6-pin mini DIN female-to-male

Part No.	Description	1	10
28548EX	PS/2 6' non-coiled	$4.35	$3.89
111053EX	PS/2 10' non-coiled	5.49	4.99

Flexible Multilink RS-232 Tester & Breakout Box

Visually indicates the status of lines 2, 3, 4, 5, 6, 8, 20 and 22 on the DTE and DCE sides. Provides signal status at a glance. Complete cable "breakout" & reconfiguration. Connectors: DB25 male and DB25 female.

- Cable length: 4"
- Size: 3.5"L x 3.3"W x 1.0"H

Includes: handy carrying case, 10 jumper wires and a device wiring chart

Part No.	Description	1	10
25945EX	Tester/breakout box	$22.95	$19.95

RS-232 Line Status Tester

Identifies simple interface problems which you can repair yourself. Targets the status of lines 2, 3, 4, 5, 6, 8, 11, 19 and 20. Connectors: male to female DB25.

Part No.	Description	1	10
14285EX	Check line tester	$8.95	$8.09

No more tangled cables on the road!

No matter how carefully you stow your laptop's cables, don't they always seem to end up in a tangles mess! And isn't that skinny RJ11 phone/modem wire the worst? Here's the answer. This RJ11 cable extends up to 8'. And when you pack up, give it a tug and it retracts into its lightweight, rugged case like a windowshade. It's completely tangleproof.

Part No.	Description	Price
233349EX	RJ11 retractable cable	$4.95

Switch Box Adapter Cables

174772EX

114913EX:
- 5' gray 5-pin DIN M-M coiled cable for P/N 114155EX switch box, pg 79

177261EX:
- 2' gray 6-pin mini DIN M-M non-coiled cable for P/N 79177EX switch box, see website

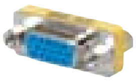
SALE

174772EX: • 6' black 6-pin mini DIN M-M
174908EX: • 6' gray 6-pin mini DIN M-M
112627EX: • 10' gray 6-pin mini DIN M-M non-coiled cable for P/N 79177EX switch box, see website

Part No.	Description	Length	1	10
114913EX	5-pin DIN	5' (gray)	$4.95	$4.49
177261EX	6-pin mini DIN	2' (gray)	2.95	2.55
174772EX	6-pin mini DIN	6' (blk)	4.95	4.25
174908EX	6-pin mini DIN	6' (gray)	5.75	5.15
112627EX	6-pin mini DIN	10' (beige)	7.95	7.25
205655EX	6-pin mini DIN	25' (beige)	8.95	7.95

Save Space! Slim-Line D-Sub Gender Changers

18497EX



119319EX

119301EX

These revolutionary slim-line gender changers are only 0.69" wide, eliminating the space problems caused by standard gender changers. When plugged into your existing cable, they add only 0.44" to the cable. All-metal cases.

- Captive locking screw (male)
- Captive locking nut (female)
- Grounding tangs (male)

Part No.	Description	1	10
18497EX	D-sub 9-pin male	$4.95	$4.49
18489EX	D-sub 9-pin female	4.95	4.49
119319EX	D-sub 15-pin female HD	4.29	3.89
119301EX	D-sub 15-pin male HD	4.95	4.49
18446EX	D-sub 25-pin male	4.95	4.49
18420EX	D-sub 25-pin female	4.95	4.49

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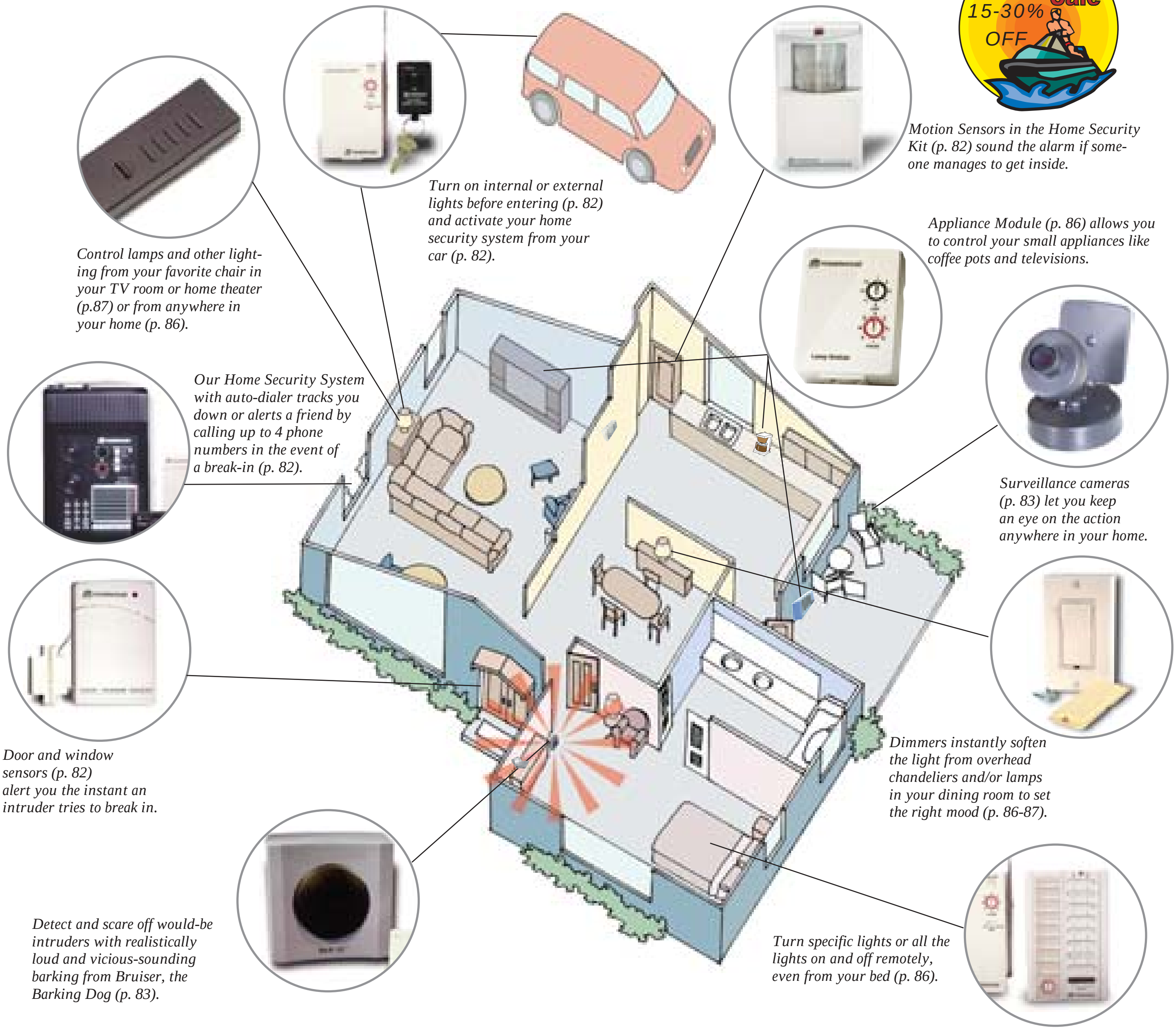
The home of the future is yours now. Enjoy convenience and protection with our automated security, appliance & lighting control.

Our wireless automated lighting and security systems offer convenience and peace-of-mind at a price anyone can afford.

IMAGINE CONTROLLING your home lighting, appliances and stereo system, or securing your home with the touch of a button. Pull into the driveway and the house lights come on. Push a button from your bedroom and all the house lights go off. Push another button in your home theater or TV room, and the lights dim to ideal viewing levels. Push a button and your security system is armed. Push a button again and your coffee pot starts, air conditioner stops, washing machine starts, etc. No more fumbling for hard-to-reach switches. No more trying to remember which switch controls what. No more wondering if that noise downstairs might be an intruder.

On the next several pages, you'll find products that can transform your home into a safe, comfortable haven for you and your family. There's no wiring to run, no monthly fees, and, best of all, they're priced so low there's no reason to spend another night feeling vulnerable. So go ahead, discover how easy and affordable we've made it to automate your home right now.



Turn on internal or external lights before entering (p. 82) and activate your home security system from your car (p. 82).

Motion Sensors in the Home Security Kit (p. 82) sound the alarm if someone manages to get inside.

Control lamps and other lighting from your favorite chair in your TV room or home theater (p.87) or from anywhere in your home (p. 86).

Appliance Module (p. 86) allows you to control your small appliances like coffee pots and televisions.

Our Home Security System with auto-dialer tracks you down or alerts a friend by calling up to 4 phone numbers in the event of a break-in (p. 82).

Surveillance cameras (p. 83) let you keep an eye on the action anywhere in your home.

Door and window sensors (p. 82) alert you the instant an intruder tries to break in.

Dimmers instantly soften the light from overhead chandeliers and/or lamps in your dining room to set the right mood (p. 86-87).

Detect and scare off would-be intruders with realistically loud and vicious-sounding barking from Bruiser, the Barking Dog (p. 83).

Turn specific lights or all the lights on and off remotely, even from your bed (p. 86).

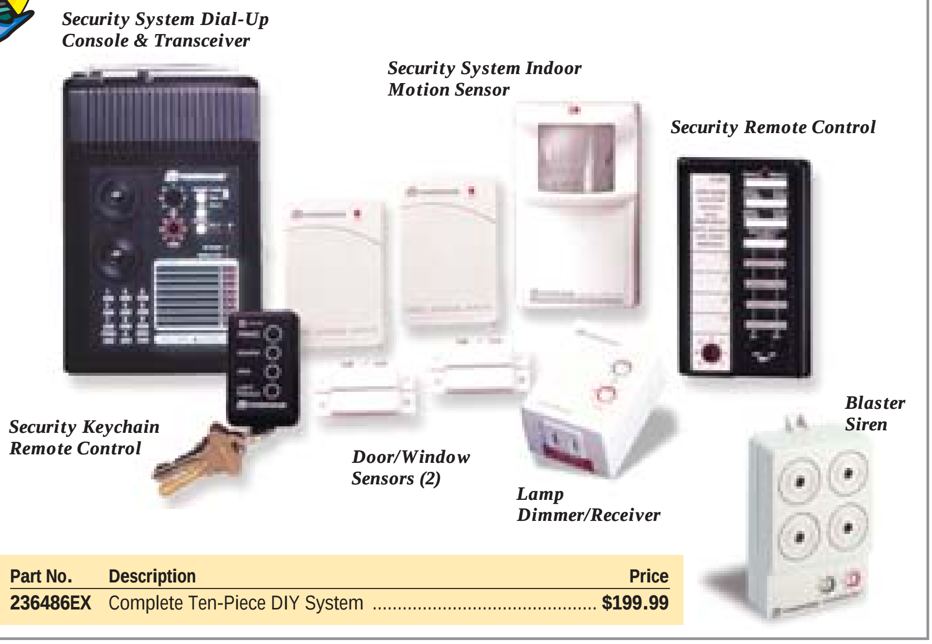
Dial-out Home Security Alarm System stops break-ins without breaking your budget. No monthly fees. No wires. No strings.

ASK ANYONE who's ever gone through it: When someone breaks into your home or apartment, they don't just take your treasured possessions. They steal your sense of security. You deserve to feel safe! Now you can get a monitored home alarm system that's every bit as effective without the high cost. No wires. No contract negotiations. No mess and without those never ending fees!

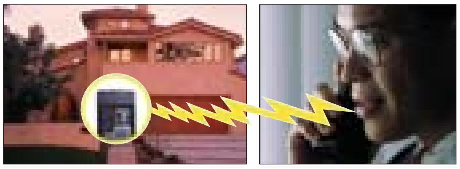
Our Home Security Alarm System with wireless X10 technology sets up in minutes without any new wiring. It protects you whether you're at home or away. And if anyone tries to break in, dual piercing alarms alert the whole neighborhood and the Security System Dial-up Console calls up to four numbers you've selected for help with your pre-recorded message.

No codes, no scrambling, no false alarms. Push a button on the Security Keychain Remote to disarm the system and turn on the lights before you enter. Push it again to arm the system after you leave. There are no codes to remember, no race against the alarm. A "Panic Button" on either remote instantly activates the alarm if you're in danger.

Here's all you get for just under $200! Ten-piece home security alarm kit includes:


Security System Dial-Up Console & Transceiver
Security System Indoor Motion Sensor
Security Remote Control
Blaster Siren
Security Keychain Remote Control
Door/Window Sensors (2)
Lamp Dimmer/Receiver

Part No.	Description	Price
236486EX	Complete Ten-Piece DIY System	$199.99



After playing your prerecorded message, the Console becomes a room monitor, allowing the person to listen in for clues to activity or even identities.

Add-On Components for Home Security Alarm System

Customize your security system to protect your entire home with these 100% compatible add-ons. You may use up to 16 combined door / window and motion sensors and up to 16 combined house or keychain remotes.

Security Remote Control

Arms and disarms entire system or perimeter (door / window) sensors only. Disables active alarm, activates alarm with panic button. Turns up to four lights or groups of lights on or off. Works anywhere in the house, up to 100' from Console.

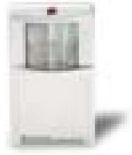
Part No.		1	4
236620EX	Was ~~$21.95~~	$19.75	$17.75

Blaster Siren

Wireless, battery-operated alarm mounts outside up to 100' from Console. Sounds a neighborhood-piercing, 110-decibel siren for 4 minutes or until deactivated.

Part No.		1	4
235977EX	Was ~~$39.99~~	$35.95	$32.75

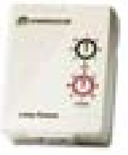
Security System Indoor Motion Sensor



Install indoors facing paths where an intruder would pass. Detects heat and motion and triggers the alarm.

Part No.		1	4
236638EX	Was ~~$49.99~~	$44.95	$40.45

Lamp Dimmer/Receiver



Allows you to control (on / off / dim) lamps manually or remotely. Plug controller into wall outlet; plug lamp into controller. 300W max.

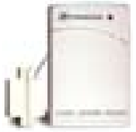
Part No.		1	4
236591EX	Was ~~$12.45~~	$11.99	$11.39

Security Keychain Remote Control

Arms, disarms, disables active alarm, and activates alarm with panic button. Turns lights on or off.

Part No.		1	4
236646EX	Was ~~$16.25~~	$14.59	$13.45

Door/Window Sensor



Triggers alarm when a door or window is opened.

Part No.		1	4
236005EX	Was ~~$19.99~~	$17.99	$16.99

Motion Sensor with 2 Floodlights

Mounts outside under eaves. Turns on floodlights and selected indoor lights either when motion is detected or at dusk.

DOES NOT TRIGGER ALARM.

Part No.		1	4
236611EX	Was ~~$54.75~~	$43.79	$39.79

Master Dimmer Switch/Receiver

Replaces standard, single-location incandescent light switch. Allows manual control of connected fixture, or responds to remote signal. 500W max.

Part No.		1	4
236574EX	Was ~~$19.65~~	$15.69	$14.25

Companion Dimmer Switch/Receiver

For incandescent lights controlled by two or more switches, order one Master Dimmer Switch (above), plus one Companion Switch for each additional switch location.

Part No.		1	4
236582EX	Was ~~$12.55~~	$11.29	$9.39

Control up to 16 cameras with one hand. Keep an eye on the kids, the pool, the front door, and the babysitter, all at once.

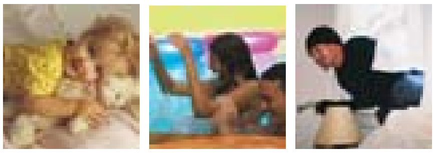
YOU'RE ALONE in the house on the computer. You've got the kids playing outside, the baby napping in the nursery, the hole-digging dog in the backyard, and now there's a knock at the front door. You can't be in ten places at once, but with our Surveillance Kit and Accessories, you can do the next best thing: from one location, you can see *and hear* exactly what's going on all around your home or office. And not just in ten places, but in *up to sixteen* areas as close as inside your home, or as far as 100' away.

Installs anywhere without wiring.
If you've seen surveillance cameras that were a hassle to install and awkward to monitor, wait until you see these. They're so compact, they're virtually unnoticeable. They require no wiring beyond plugging a cord into an electrical outlet.

They use X10 radio frequency technology to send both *audio and color video signals* right through walls to your TV. And you can view the image from any camera, or scan up to 16 of them, with a single remote control.

Just place or screw-mount the cameras wherever you want them, and plug their power supply into an indoor or outdoor AC outlet. Use the supplied cable to connect the Audio / Video Receiver into your TV. Plug the transceiver into a wall outlet. Now you're ready to sit back and use the remote to view any or all surveyed areas. The remote automatically turns each camera on when you select it for viewing and turns it off when you switch to another camera.

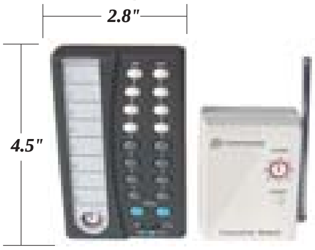
The signal travels up to 100' so you don't have to.
Effortlessly monitor activities in and around your home to prevent accidents, break-ins, and to make sure your children are safe. Our wireless Surveillance Kit plugs into your TV so you can scan the camera locations with the remote control.



Home security is just the beginning.
Put a camera on the front porch and see who's outside your door before you open it. Put one in the garage to protect your expensive power tools. Put one in the backyard to keep an eye on your kids and pets. Put one by the pool to prevent accidents. Put one in the nursery to keep an eye on the baby. Place a camera to see who's coming up the driveway too. Use them at your small business to keep tabs on supply closets, inventory and other valuable assets.

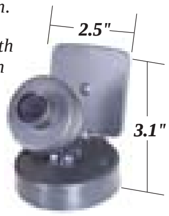
Kit contains all you need to monitor one area.
Our four-piece Surveillance Kit gives you everything you need to monitor one area—one wireless camera with power supply, one receiver which plugs into your TV's audio / video jacks, one CamRemote remote control, and one transceiver. To survey additional areas of your home, just add more cameras—one receiver manages input from as many as 16 cameras.

You get all this for just $101.95.



Transceiver plugs into a wall outlet, receives commands from the remote, and sends a RF signal to the cameras to turn off or on.

CamRemote lets you access images and sound from any camera or scan among all your cameras at the touch of a button.



Tiny full-color camera with built-in microphone fits in the palm of your hand.

Receiver plugs into the audio/video ports on your TV. It receives signals from up to 16 cameras and sends them to the TV.

Part No.	Description	Price
236494EX	Surveillance starter kit	Was ~~$119.95~~ $101.95

Customize Your Surveillance System for Your Home

The Starter Kit gives you the basics, but in order to keep tabs on all areas of your property, you'll probably need to survey more than one area. These accessories allow you to customize a system designed for your home and convenience.

Additional Camera
Place up to 16 cameras around your home & office.

Part No.		1	4
236662EX	Was ~~$62.95~~	$53.49	$48.75

Additional Audio/Video Receiver
For each additional TV you'd like to use as a monitor, add one A / V Receiver.

236654EX	Was ~~$43.45~~	$36.89	$33.49

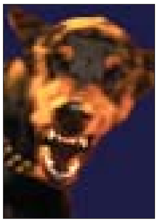
Additional CamRemote & Transceiver
Stash an additional CamRemote in every room with an A / V Receiver (above), and keep watching as you move around the house.

236726EX	Was ~~$29.99~~	$25.49	$24.19

Camera Battery Pack
Get up to 4 hours of cord-free power. Makes the Camera completely portable

236671EX	Was ~~$23.45~~	$19.89	$18.15

Deadly realistic digital guard dog sends prowlers packing.



HOME ALONE? A prowler has you marked as easy prey. But as he approaches—long before you would hear a sound—your trusty companion detects his presence and unleashes a torrent of deep-throated, flesh-ripping barks so frighteningly realistic. Bruiser, the Barking Dog Alarm System makes it sound like you've got a huge, vicious guard dog just waiting to get loose.

Set up in 15 minutes —no wiring.

Mount the motion sensors outside or indoors, plug in Bruiser near a likely entry point and X10 technology does the rest. The instant either sensor detects movement and heat, it sends a radio frequency signal right through the walls to the Bruiser up to 100' away. Add switches / receivers (p. 74) or lamp dimmers (below), and those fixtures will light five seconds after the barking starts, just as if someone were up and investigating. For additional security, you can also turn the barking and the lights on or off from your remote.

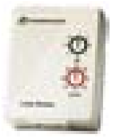
Bruiser, the Barking Dog Alarm System
Includes barking dog alarm with volume control, two outdoor motion sensors, and one two-button keychain remote. Dog requires AC outlet and 9 "C" batteries (not included) for backup in case of a power failure.

Part No.	Description	Price
235969EX	Bruiser Alarm System	Was ~~$139.95~~ $118.99

Bruiser Accessories

Customize your Bruiser Alarm System with these compatible accessories.

Note: The Bruiser sensors and remotes are not interchangeable with those used by the Home Security Alarm System.



Lamp Dimmer/Receiver
Allows you to control (on / off / dim) lamps manually or remotely. Plug controller into wall outlet; plug lamp into controller. 300W max.

Part No.		1	4
236591EX	Was ~~$13.45~~	$11.99	$11.39

Additional Bruiser Outdoor Motion Sensor
Requires 4 AA batteries (not included).

236806EX		$29.99	$28.49

Additional Bruiser Keychain Remote
2-button remote controls barking dog and one other device.

236558EX	Was ~~$17.35~~	$14.75	$13.39

Affordable wireless full-color video monitoring!

Your own full-color indoor video monitoring/security system is only seconds away! The compact, wall-mountable camera transmits up to 150 feet on the reliable 2.4 GHz band for clear, convenient viewing on a standard TV or VCR. Set up is quick and easy. Simply mount the camera, choose day or night mode, adjust the manual focus, and apply power from the included A/C adaptor. Then choose a convenient spot for your monitoring station, hook up your TV or VCR, and you're ready to go. Plus, the expandable FM receiver comes ready to monitor up to 4 locations, by simply installing additional cameras. Complete monitoring package includes camera, receiver, remote control, power adapters and RCA cables.

Quick and easy set up at a fabulous price, it's the ideal solution for security monitoring.

- Output level: 1Vp-p
- Power requirements: 8VDC @ 400mA
- Weight: 3.0 lbs.

Wireless Receiver:
- Size: 4.1"W x 2.9"D x 1.0"H

Wireless Camera:
- Operating frequency: 2.414 to 2.468GHz
- FM audio/video modulation
- Video input level & impedance: 1Vp-p, 75Ω
- Audio input level & impedance: 1Vp-p, 600Ω
- Illumination: 0.5 lux
- Size: 5.5"W x 4.7"D x 4.7"H

Part No.	Description	Price
233375EX	2.4GHz wireless camera *Was ~~$69.95~~*	$55.95

4-Channel 2.4GHz Wireless Audio/Video Receiver and 10mW Transmitter

Make your camera wireless up to 492 feet!

- Transmission range: 492' (150M outdoors); 164' (50M indoors)
- 4-channel switch selectable on transmitter
- Output power (transmitter): 10mW
- Output impedance: 50Ω typical
- Video input: 1Vp-p composite
- Audio input: 2Vp-p max.
- RCA jacks for audio and video connectors

192858EX

Receiver:
- Video loss detection and freeze channel
- Non-volatile memory protects system set-up from power loss
- Mute and alarm trigger port
- Size: (transmitter) 4.5"L x 3.2"W x 1.0"H
- Size: (receiver) 6.5"L x 5.5"W x 1.4"H
- Weight: 1.8 lbs.

192866EX

Includes: RCA cable, 12VDC@500mA adapter, RCA to F connector adapter (receiver unit only)

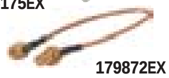
Part No.	Description	Price
192858EX	4-channel transmitter	$89.95
192866EX	4-channel receiver	124.95

2.4GHz Wireless Antenna Booster

Extend Video Transmitting Distance

- Output power: 700mW (±10%)
- Input power: 10mW ~ 60mW
- Consumption 350mA
- Impedance output: 50Ω typical (to antenna)
- Frequency: 2400 – 2500MHz
- Size: 2.2"L x 2.0"W x 0.8"H

215175EX



179872EX

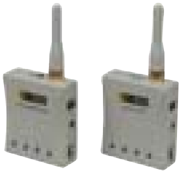
Includes: 9VDC @ 800mA power supply

Part No.	Description	Price
215175EX	Antenna booster	$199.95
179872EX	Wireless extension cable	10.99

4-Channel 2.4GHz Wireless Audio/Video Transmitter System

CCIR, NTSC, PAL, EIA Format

- ISM Band: 2.413 – 2.470GHz
- Four selectable channel transmitter and receiver
- Antenna mode: dipole (omnidirectional)
- Impedance: 50Ω typical
- Video input: 1Vp-p composite
- Audio input: 2Vp-p max.
- Weight: 3.2 lbs.



Includes: Two 9VDC @ 300mA with 1.3mm x 3.5mm center positive plug, and two 2.5mm male to RCA patch cables

Part No.	Description	Price
265308EX	4-ch. wireless system	$149.95

Video Text Display Module

NTSC composite (1Vp-p, 75Ω)

- Asychronous serial input: 2400, 4800, 9600 or 19.2Kbps
- 30-pin SIMM form factor (socket supplied)
- Compatible with Parallax Basic Stamp®, see pg 92
- Auto-switching genlock overlay or internal video generation
- 12 x 18 pixel character pattern
- Power supply: +8-16VDC @ 65mA input; 5VDC aux. output (regulated) provided
- Size: 3.5"L x 1.1"H
- Displays up to 308 characters (11 lines of 28)

Part No.	Mfr. Cross Ref. No.	Price
162051EX	BOBII	$69.95

Over 99% of our products are in stock! Place your order by 6PM EST for same business day shipment.

Mount your video camera almost anywhere

As steady as a tripod, the Window Camera Mount lets you anchor that video camera to any glass surface at any height.

Mounts easily to your car window

Mount your video or CCTV camera on any window or other non-porous surface, and capture what you've never been able to before. This heavy-duty metal mounting bracket attaches securely to any glass surface with a strong lever-activated 3.25" neoprene suction cup. Mount your camera onto the tripod-style screw. Adjust to any position, and you're ready to shoot hands-free. It's perfect for temporary surveillance of your business or home. For cameras up to 3 lbs.

Part No.	Description	Price
222746EX	CCTV camera window mount	$39.95

Mini Indoor Pan & Tilt Mechanism

Continuous Pan

- Automatic scanning: 0˚ – 355˚ angular travel; pan clockwise and counter-clockwise
- Manual tilt: 0˚ - 90˚
- Pan speed: 5˚/sec.
- Maximum load: 4.4 lbs.
- Power consumption: 1 Watt
- Size: 2.5"Dia. x 2.4" H
- Warranty: 2 years continuous use
- Wt.: 0.4 lbs.

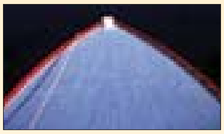
Camera not included

Includes: 24V @ 150mA power supply, wall mount bracket and mounting hardware

Part No.	Description	Price
215407EX	Mini pan/tilt	$49.95

Create an R/C plane-cam, model train-cam, or even a French poodle-cam!

This mini-wireless camera can be used for professional or home surveillance or... just to have fun!



Attach it to a toy boat and ride the waves of a true sailor.

Attach to a model train and get the "Engineers point of view".

Now you can place a color video camera (with sound!) almost anywhere! This super-small (1" x 3/4" x 7/8"), 3 Lux wireless camera and receiver combo delivers sharp, full-motion video images at 380 lines of resolution. With its 150-foot (unobstructed) range, light weight, and 9-volt battery power, you can now add video capability to a world of hobby applications.

Part No.	Description	Price
249025EX	Mini wireless color camera	$89.95

Hi-value, low cost 5" monitor system goes anywhere, sees everything, even in low light!

Our convenient low-priced wireless A/V monitoring system easily extends the reach of your eyes and ears to keep watch over your home or business. Just plug it in and you are ready to go. Pick up the lightweight monitor with its convenient handle and use battery power while you keep tabs on your domain anywhere within receiving range. Slide the camera's power switch into the "night" position and the infra-red LEDs allow you to see in very low light. The built-in RCA jacks allow you to run the signals directly into your VCR for true 24/7 security. The set comes complete with one camera and monitor.

Extra Eyes and Ears

Expand your video security system with up to three of our versatile add-on cameras which come complete with built-in transmitters. Up to 4 rooms can be observed from a single monitor. Easily switch between cameras with a four-step, 3 to 10 second auto-switching control. The camera's wide field of vision and flexible tilt-and-swivel mount make these black & white cameras a perfect addition to your monitoring set-up. Reliable 2.4 GHz technology transmits clear video and audio to your receiver and monitor.

Monitor Receiver Specifications:
- 5" black & white CRT screen with contrast, volume, and brightness controls
- Frequency: 2400-2483 MHz
- Sensitivity: -80 to ~ -85dBm
- Video output: 1Vpp, 75Ω
- Audio output: -8dBs, 47kΩ
- Horizontal resolution: 330 lines
- Automatic camera switching

Requirements:
12VDC @ 1A power supply (included)
or 10 C size batteries (not included)

Camera Specifications:
- Transmit frequency: 2400-2483 MHz
- Modulation: FM
- Max frequency deviation: 20MHz
- Audio sub carrier frequency: 6.0-6.5 MHz
- Usable range: 50-100 meters
- Infrared detection range: 1-2 meters

Requirements: 12VDC @ 300mA power supply (included)

Part No.	Description	Price
235045EX	5" black & white monitor & camera	$135.95

4" TFT LCD Monitor

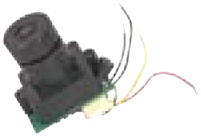
NTSC Format

- TFT color LCD
- Resolution: 234 x 383dpi
- Backlight: cold cathode fluorescent lamp
- Power source: 12VDC @ 400mA
- 5" long lead wire with 4 position molex type power connector
- Tint color and brightness adjustable
- Size: 4.1"L x 3.3"W x 0.7"H (display)
- Size: 4.7"L x 3.3"W x 1.3"H (unit) • Weight: 0.7 lbs.

Part No.	Description	Price
172742EX	4" color LCD monitor	$159.95

Color Camera Board

NTSC Format



- 5.0 lux • FOV: 92˚
- 330 TV lines
- 3.6mm lens/F2.0
- 1/3" image sensor
- Low power consumption
- Automatic exposure, gain and white balance • Size: 1.0"L x 0.9"W x 1.1"H

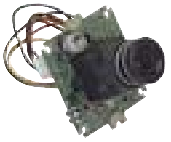
Part No.	Description	Price
171011EX	Camera board	$73.95

Place your order by 6PM EST for same business day shipment.

SONY®

Black & White Low-Light Camera

Sony Chipset

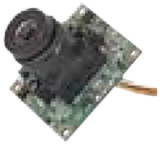


- Signal to noise ratio: >48dB
- Requires 12V power source (not included)
- 6" wires with 4-pin Molex-type keyed connector
- EIA system 537(H) x 505(V)
- Composite output with 420 line resolution
- Temp tolerance: -5 to +40˚C • Lens: 3.6mm
- Shutter speed: 1/60 - 1/1000 • FOV: 92.6˚
- Video output: 1.0Vpp composite video/75Ω
- Size: 1.3"L x 1.3"W x 1.0"H • One-year warranty

Part No.	Description	Price
150931EX	Camera board	Was ~~$89.95~~ $85.45

Black & White Camera

EIA Format



- 510(H) x 492(V)
- S/N ratio: 46dB
- 1/3" CCD image sensor
- Horizontal resolution: >350 lines
- Scanning system: 2:1 interlace
- Sensitivity: 0.7 lux/F2.0
- Video output: 1Vp-p, composite video 75Ω
- Power supply: 12VDC (recommend P/N 162996EX, see web) • Size: 1.3"L x 1.3"W x 1.2"H
- Power consumption: 110mA • FOV: 92˚
- Electronic shutter: 1/125,000 sec. (linear)

Part No.	Description	Price
171029EX	Camera board	$44.95

Color Interline Camera

Water Resistant

- EIA format
- FOV: 530
- 5 lux sensitivity
- 1/3" CMOS image sensor
- EIA format: 512(H) x 492(V)
- 330 horizontal line resolution
- 2:1 scanning interlace system
- Video output: 1V p-p; 75Ω
- S/N ratio: 40dB
- 6mm lens/F2.0
- Electronic shutter: 1/60 – 1/1,200 sec.
- Adjustable mounting bracket
- Connectors: 1 standard RCA female jack for video, and in-line 2.1mm power-plug connector for power supply • Size: 2.6"L x 0.9"Dia.

Includes: Adjustable mounting bracket, instruction sheet and 9V @ 100mA power supply

Part No.	Description	Price
185017EX	Color camera	$99.95

Mini Enclosed Color NTSC Camera

- 1/4" CCD sensor
- 350 horizontal TV lines
- Electronic shutter: up to 1/120,000 sec.
- 1 lux/F2.0
- NTSC system with 512(H) x 492(V)
- Scanning system: 2:1 interlace
- Signal to noise ratio: 48dB • Lens: 3.7mm/F2.0
- Video output: 1Vp-p, 75Ω • FOV: 92˚
- Size: (enclosure) 1.3"L x 1.1"W x 0.9"D

Requires: 9VDC – 12VDC @ 500mA power supply (recommend P/N 100853EX, pg 24)

Includes: BNC/Power cable and mounting hardware

Part No.	Description	Price
215423EX	Mini enclosed camera	$129.95

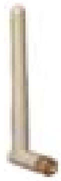
Don't be caught vulnerable at night. Add a solar-charged halogen light!

Dark spots around your business, house or neighborhood are vulnerable to vandalism or burglary. To protect your property, equip it with our new outdoor security lights and motion sensors. All you need are simple tools to mount the unit to the wall. No complicated wiring or electrician needed. The built-in batteries are rechargeable by sunlight, so if the main power goes out you still have security lighting. The solar panel, which has a 12' cord, can be positioned for optimum light exposure. Charged a minimum of 3 days before initial use for proper operation.

- Lights up to 60 times on a single charge
- Charges by day,lights by night
- Complete with built-in motion detector, rechargeable battery and bright halogen light
- Easy to install • Weight: 7.1 lbs.

Part No.	Description	Price
219580EX	Solar outdoor floodlight	Was ~~$79.95~~ $71.95

2.4GHz SMA RF Antenna



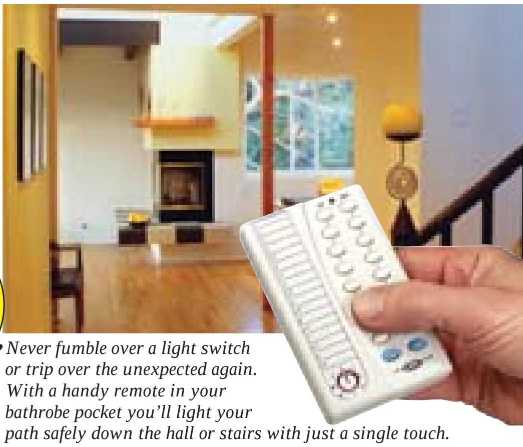
- For use with 2.4GHz cameras, transmitters, and receivers
- Gain: 3dB • SMA male
- Size: 3.6"L

Part No.	Description	Price
179864EX	2.4GHz antenna	$15.95

Control every light in your home from your chair, bed, or even your car.

Our automated lighting control system using X10 technology lets you operate the lights in your home from your car or from anywhere in your home. You can turn on, turn off or dim lights, even if they couldn't dim before. A single button can operate individual lights, groups of lights, whole rooms, or even the whole house. It works with lamps, wall-switched fixtures, even appliances.

As easy as replacing a switch. No new wiring! Just plug your lamps into Lamp Dimmers and replace your wall switches with Master Dimmers. Replace multi-location switches with a Master Dimmer and Companion Switch(es). Plug the Transceiver into a wall outlet, and you're done. The remotes communicate with the transceiver via radio frequency signals that travel up 100', even through walls. That means you don't have to be in the same room as the lights you're controlling—you don't even have to be in the house. The transceiver sends your commands to the dimmers through the wiring already in your walls.



Never fumble over a light switch or trip over the unexpected again. With a handy remote in your bathrobe pocket you'll light your path safely down the hall or stairs with just a single touch.

Home Lighting Control Kit

Our economically priced starter kit contains everything you need to control one lamp and one wall-switched lighting fixture from your car or home. To control multiple lights from one place, you'll want to add dimmers for each light source in your home or garage. Order additional Keychain Remotes for other family members, and additional House Remotes for upstairs, bedrooms, or wherever you need them. You'll find these additional components and accessories listed below.

Part No.	Description	Price
236478EX	Home lighting control kit	*Was ~~$99.99~~* $79.99

House Remote Control
Turns on or off, dims or brightens up to 16 individual lights or up to 16 groups of lights.

Transceiver
Receives signals from your remotes up to 100' away and sends on/off/dim commands to lamp and lighting fixture receivers through your home wiring.

Keychain Remote Control
Turns on/off and dims two lights or two groups of lights from within a closed car.

Lamp Dimmer/Receiver
Allows you to control (on/off/dim) lamps manually or remotely.

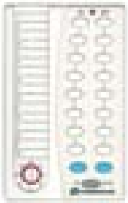
Master Dimmer Switch/Receiver
Replaces standard light switch. Allows manual control of connected fixture, or responds to remote signal.

Companion Dimmer Switch/Receiver
For use on fixtures controlled by two or more switches.

Light the porch and entry hall before leaving your car.

Customize Your Automated Home System with Compatible Add-On Components

House Remote Control



Turns on or off, dims or brightens up to 16 individual lights or up to 16 *groups* of lights whose receivers are set to the same "address". For instance, turn off all downstairs lights with one button. Works up to 100' from transceiver. One remote controls all transceivers.

Part No.		1	4
236603EX	*Was ~~$18.45~~*	$14.75	$13.39

Keychain Remote

Turns on / off and dims two lights or two groups of lights from within a closed car. Up to 50' range.

Part No.		1	4
236558EX	*Was ~~$17.35~~*	$14.75	$13.39

Lamp Dimmer/Receiver

Allows you to control (on / off / dim) lamps manually or remotely. Plug controller into wall outlet; plug lamp into controller. 300W max.

Part No.		1	4
236591EX	*Was ~~$13.45~~*	$11.99	$11.39

Mount-Anywhere 3-Device Wall Switch

Mount this pressure-sensitive switch anywhere you wish you had a wall switch. No wiring! Communicates with the transceiver via RF signals. Three buttons control three lights or groups of lights anywhere in the system. Fourth button dims.

Part No.		1	4
236566EX	*Was ~~$22.65~~*	$18.10	$16.40

Motion Detector with 2 Floodlights

Mounts outside under eaves. Turns on floodlights and selected indoor lights when motion is detected or at dusk.

Part No.		1	4
236611EX	*Was ~~$54.75~~*	$43.79	$39.79

Master Dimmer Switch/Receiver

Replaces standard, single-location light switch. Allows manual control of connected fixture, or responds to remote signal. 500W max.

Part No.		1	4
236574EX	*Was ~~$19.65~~*	$15.69	$14.25

Companion Dimmer Switch/Receiver

For incandescent lights controlled by two or more switches, order one Master Dimmer Switch (above), plus one Companion Switch for each additional switch location.

Part No.		1	4
236582EX	*Was ~~$12.55~~*	$11.29	$9.39

Plug-in Appliance Module

Controls appliances such as fans, air conditioners, dehumidifiers, coffeepots, stereos, TVs, etc. Rated at 15 amps, 1/3 h.p., 500W.

Part No.		1	4
236857EX	*Was ~~$14.99~~*	$11.99	$11.39

See Pages 88 & 89 for Our New Home Automation Kits

The lights fade. The hush falls. The excitement grows. The adventure is about to begin.

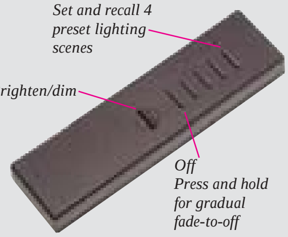
Experience the drama and convenience of remote controlled lighting in your home theater or TV room without spending a fortune or rewiring your home. At the push of a button, the Lutron Home Theater System dims all incandescent and halogen lamps and lighting fixtures in the room to your preset preferences, even if your lights couldn't dim before. As the lights fade, you'll feel the excitement of being in a real movie theater. Preset up to 3 more lighting "scenes" with the Four-Scene Remote and go from movies to games to reading to snuggling to lights-out, all without touching a light switch. The dimmers will even respond to many programmable TV remotes!

Installs in 15 minutes without wires. Just plug your lamps into Lutron Lamp Dimmers and replace your wall switches with Lutron Wall Dimmers. That's all there is to it. You can operate any dimmer manually to control a single fixture. Or pick up the remote control and operate all the lights simultaneously. The Favorite Scene Remote lets you recall one lighting scheme instantly. The Four–Scene Remote lets you preset up to four lighting tableaus. Order the right type of dimmer for each light switch, but just one remote. Need help choosing the right components? Call our friendly and knowledgeable Technical Support team at 1-800-455-6119.

How Dimmers Work

Our wall switch dimmer dims / brightens / fades lights manually or from a remote signal. For use with fixtures controlled by a single wall switch. For fixtures with two or more switches controlling the same light, order one master and a companion switch for each additional switch. Order one to replace each wall light switch. 600W capacity. Note: Can be "ganged" in the same wallbox, reducing load to 500 watts (2-gang) or 400 watts (3-gang).

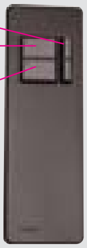
Bring down the "house lights" without leaving your seat. No fumbling, no wires, no fuss.


Set and recall 4 preset lighting scenes
Brighten/dim
Off
Press and hold for gradual fade-to-off

Four-Scene Remote Control

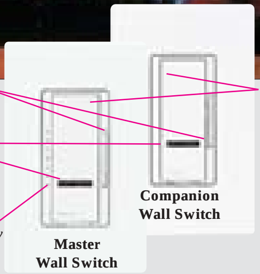
Recalls preset light levels for four scenes plus off, and fine tuning of light levels. Scenes are dependent upon dimmer settings. Range is 50' line-of-sight to receiver. Order one for each room. *Was ~~$94.95~~*

235731EX Four-scene remote....... **$69.95**


Brighten/dim
On – turn lights on to your favorite scene
Off – press and hold for variable fade-to-off

Favorite Scene Remote Control

Extra remote packaged with several dimmers. Recalls preset light levels for one scene plus off, and fine tuning of light levels. Range is 30' line-of-sight to receiver.


Rocker brightens and dims the light
Infrared receiver
LEDs indicate light level and glow softly to find in the dark
Master Wall Switch
Companion Wall Switch

Turn lights on:
- *Tap once, lights gradually go on to your predetermined light level.*
- *Tap twice, lights go on to full illumination*

Turn lights off:
- *Tap once, lights go off within 3 seconds*
- *Press or hold, lights go off within 10-60 seconds*

Multi-Location Wall Switches

Buy one Master Wall Dimmer and an Accessory Wall Dimmer for each additional switch that controls the same light. Dimmers offer a large 600 watt capacity.

Order a bundle and save!

We've bundled Favorite-Scene Remotes with a variety of switches and passed on the savings to you!

Lamp Dimmer

Just plug in your lamp. Sits unobtrusively on table. Dims / brightens / fades lamp manually or from a remote control. Order one for each lamp. 300W capacity. *Was ~~$84.25~~*

235601EX Lamp dimmer **$64.95**

IR Remote Controlled Dimmers and Accessories

LUTRON

Part No.	Description	Remote Included	Master Dimmer	Accessory Dimmer	Color	Price	Usage
235643EX	Single Master Wall Switch Dimmer	No	Yes	No	White	Was ~~$89.95~~ $64.95	For use on lights with one wall switch
235660EX	Single Master Wall Switch Dimmer	No	Yes	No	Light Almond	64.95	For use on lights with one wall switch
235651EX	Single Master Wall Switch Dimmer	No	Yes	No	Ivory	64.95	For use on lights with one wall switch
235619EX	Single Master Wall Switch Dimmer and Remote	Favorite Scene	Yes	No	White	Was ~~$114.25~~ 84.95	For use on lights with one wall switch
235635EX	Single Master Wall Switch Dimmer and Remote	Favorite Scene	Yes	No	Light Almond	84.95	For use on lights with one wall switch
235627EX	Single Master Wall Switch Dimmer and Remote	Favorite Scene	Yes	No	Ivory	84.95	For use on lights with one wall switch
235678EX	Master & Companion Wall Switch Dimmers	No	Yes	Yes	White	Was ~~$126.95~~ 94.95	For use on lights with two wall switches
235694EX	Master & Companion Wall Switch Dimmers	No	Yes	Yes	Light Almond	94.95	For use on lights with two wall switches
235686EX	Master & Companion Wall Switch Dimmers	No	Yes	Yes	Ivory	94.95	For use on lights with two wall switches
235707EX	Master & Companion Wall Switch Dimmers & Remote	Favorite Scene	Yes	Yes	White	Was ~~$159.15~~ 114.95	For use on lights with two wall switches
235723EX	Master & Companion Wall Switch Dimmers & Remote	Favorite Scene	Yes	Yes	Light Almond	114.95	For use on lights with two wall switches
235715EX	Master & Companion Wall Switch Dimmers & Remote	Favorite Scene	Yes	Yes	Ivory	114.95	For use on lights with two wall switches
236890EX	Companion Wall Switch Dimmer	No	No	Yes	White	Was ~~$26.45~~ 18.95	For use with any IR Master Dimmer
236902EX	Companion Wall Switch Dimmer	No	No	Yes	Light Almond	18.95	For use with any IR Master Dimmer
236911EX	Companion Wall Switch Dimmer	No	No	Yes	Ivory	18.95	For use with any IR Master Dimmer
235601EX	Lamp Dimmer	No	NA	NA	Royal Plum	~~$84.25~~ 64.95	For use with any incandescent or halogen lamp
235598EX	Lamp Dimmer and Remote	Favorite Scene	NA	NA	Royal Plum	~~$109.65~~ 84.95	For use with any incandescent or halogen lamp
235731EX	Four-Scene Remote Control	Four-Scene	NA	NA	Royal Plum	~~$94.95~~ 69.95	For use with all dimmers listed above
235803EX	Decorative Screwless Faceplate	NA	NA	NA	White	Was ~~$4.65~~ 3.49	For one switch
235820EX	Decorative Screwless Faceplate	NA	NA	NA	Light Almond	3.49	For one switch
235811EX	Decorative Screwless Faceplate	NA	NA	NA	Ivory	3.49	For one switch
235838EX	Decorative Screwless Faceplate	NA	NA	NA	White	Was ~~$9.45~~ 6.95	For two switches
235854EX	Decorative Screwless Faceplate	NA	NA	NA	Light Almond	6.95	For two switches
235846EX	Decorative Screwless Faceplate	NA	NA	NA	Ivory	6.95	For two switches
235862EX	Decorative Screwless Faceplate	NA	NA	NA	White	Was ~~$14.55~~ 10.49	For three switches
235889EX	Decorative Screwless Faceplate	NA	NA	NA	Light Almond	10.49	For three switches
235871EX	Decorative Screwless Faceplate	NA	NA	NA	Ivory	10.49	For three switches
235897EX	Decorative Screwless Faceplate	NA	NA	NA	White	Was ~~$18.95~~ 13.95	For four switches
235918EX	Decorative Screwless Faceplate	NA	NA	NA	Light Almond	13.95	For four switches
235900EX	Decorative Screwless Faceplate	NA	NA	NA	Ivory	13.95	For four switches

Ivory
Light Almond

All Lutron Dimmers work on incandescent and halogen lights only.

Discover how easy it is to build your own home automation system while you amaze your friends and spoil your family with the convenience. Control your home lighting and other devices around the home with the touch of a button, or through your computer.

Velleman® Home Automation Solutions

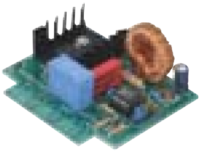
Control devices and lighting systems using a touch pad, remote control or your computer. Use the chart below to determine the compatibility of Velleman's solutions with your applications.

Velleman Home Automation Kits Compatibility Table

											Device Control			Lighting Control		
Description	Part No.	239476EX	120547EX 120555EX	128910EX	128928EX	239484EX	239492EX	239505EX	239516EX	239468EX	Touch Pad Controlled	Computer Controlled	IR Remote Controlled	Touch Pad Controlled	Computer Controlled	IR Remote Controlled
Relay Card K2633	239476EX	—								Yes	Yes					
15 ChannelReceiver/ Transmitter K6711/S6710	120547EX 120555EX		—	Yes	Yes	Yes						Optional			Optional	
Universal Relay Card K6741	128910EX		Yes	—	Yes	Yes				Yes	Yes	Yes	Yes	Yes	Yes	Yes
Computer Control Interface K8000	128928EX		Yes	Yes	—	Yes					Optional		Optional	Optional		Optional
Modular Lighting System K8006	239484EX		Yes	Yes	Yes	—	Yes	Yes	Yes	Yes				Yes	Yes	Yes
Dimmer Module K8007	239492EX					Yes	—							Yes*	Yes*	Yes*
Multi-Function Relay Module K8008	239505EX					Yes		—						Yes*	Yes*	Yes*
Slow-On/Off Dimmer K8029	239516EX					Yes			—					Yes*	Yes*	Yes*
8-Channel Touch Panel K8046	239468EX	Yes		Yes	Yes	Yes				—		Optional			Optional	

* Requires: 239484EX (K8006), below

Dimmer Module ▲ *24-piece kit*



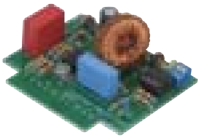
Easy pushbutton up / down control of light sources. A brief push toggles on / off, while continued pushing engages dimming action. Memory function maintains preferred level. Includes soft-start function. Suitable for low voltage halogen lighting.

- For use with K8006 modular light base unit (P/N 239484EX, below right)
- Operating voltages: 110-125 or 220-240VAC @ 50-60Hz
- Maximum load: 2.5A (550W/220V; 275W/110V)
- Transient suppressor to avoid radio/TV interference according to EN55015
- Dimming speed: approximately 3.5 seconds
- Size: 2.6"L x 2.2"W x 1.0"H

Part No.	Description	Price
239492EX	K8007 Dimmer module kit	$22.95

Slow-On/Slow-Off Dimmer

▲ *31-piece kit*



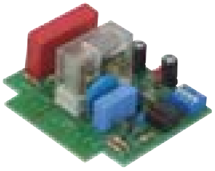
Microprocessor controlled dual mode operation. Slow-on / slow-off dimmer with two independent and programmable delays. Dimming directions change with each key press. Has two lighting modes. Mode one provides control for slow-on / slow-off dimming and total light level depending on key pressed. Mode two provides instant full power lighting for a programmable time and then the light slowly fades to zero.

- For use with K8006 modular light base unit (P/N 239484EX, right)
- 2 programmable delays: from 1 second to 1 hour
- No memory loss in case of power failure
- Soft-start function that prolongs life of bulb
- AC power: 110-125 or 220-240VAC @ 50-60Hz
- Maximum load: 2A (200W/110V; 400W/220V)

Part No.	Description	Price
239516EX	K28029 Slow on/off dimmer	$22.95

Multi-Function Relay Module

▲ *30-piece kit*

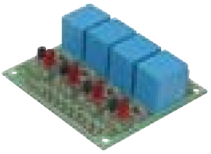


Fourteen different functions including timers, switching, flashing, interval, and random switching. Two pre-programmed delays. Learning mode for delays of 2 seconds up to 12 days. Pushbutton control. EEPROM for delay time storage in case of power failure. On-board transient filter for relay contacts or loads (selectable). Suitable for control of incandescent lighting, halogen lighting, fluorescent lighting, fans, valves, buzzers, and more.

- For use with K8006 modular light base unit (P/N 239484EX, below right)
- Operational voltages: 110-125V or 220-240VAC @ 50-60Hz
- Maximum load: 2.5A (550W/220V; 275W/110V)
- Size: 2.6"L x 2.2"W x 1.0"H

Part No.	Description	Price
239505EX	K8008 Multi-function relay module	$24.95

Relay Card ■ *29-piece kit*



Connecting a number of relays to the outputs of an electronic network may seem very simple, but in reality it could create some problems regarding the cabling. This kit provides an attractive and compact alternative. Easy to assembly and can be connected instantly. Can be used with K8046, 8 channel touch panel (P / N 239468EX, pg 89). Requires 9VDC @ 300mA power supply (not included); see below.

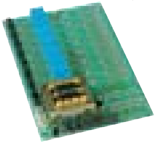
- 4 x 3A relay outputs
- Size: 3.0"L x 2.7"W

Part No.	Description	Price
239476EX	K2633 relay card kit	$24.95
133891EX	9VDC @ 300mA power supply	3.95

Universal Relay Card

SALE

▲ *64-piece kit*



128910EX

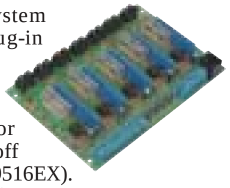
An electronic controller that switches higher currents while providing insulation between the controller and the controlled devices.

- Relay Output: Max. 5A/220VAC
- Contact Volt.: 12VDC/250mA
- TTL or CMOS inputs

Requires: 125 or 220VAC power source (recommended P/N 34315EX, pg 9)

Part No.	Description	1	10
128910EX	K6714 Universal relay card kit	$59.95	$53.95
144186EX	VR15M121C relay (JZC-22F)	3.79	3.39

Modular Lighting System Base Unit ▲ *94-piece kit*



Modular light control system for use with optional plug-in dimmer module K8007 (P / N 239492EX), plug-in timer module K8008 (P / N 239505EX) or plug-in slow-on / slow-off module K8029 (P / N 239516EX). Bus system holds up to five plug-in units. Optically-isolated push-button inputs can be controlled with K8000 computer interface card (P / N 128928EX) or K6711 IR remote control receiver (P / N 120547EX). Local control push-buttons included. LED power and channel operation indicators. Low-voltage (24VAC) control circuit for extra safety. Each plug-in slot is fused. Includes 10 LEDs for pushbutton illumination.

- 5 separated channels
- Max. output: 2.5A per channel (fuse protected)
- Pushbutton control current: 150mA
- Open collector control current: 25mA DC
- Power supply: 24VAC @ 300mA
- Supply voltage for modules: 110V to 240V
- Size: 4.2"L x 6.3"W x 2.8"H

Part No.	Product No.	Price
239484EX	K8006 Modular lighting system kit	$39.95

velleman Home Automation Control Interfaces

User Definable 8-Channel Touch Panel ▲ *105-piece kit*

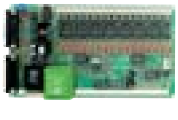
Ever wanted your own keyboard with your own personal layout and symbols? Here is the solution: simply print your keyboard layout on a transparent foil and make your own keyboard. The function of each key can be selected (momentary or toggle) and each key is backlit. It is even possible to simulate "classic radio keys" (only one output can be ON, similar to a rotary switch). One key can be defined as a preset memory or serve as an "all clear" key. Completing the features of this unique keyboard is a "click" sound when the keys are operated. The output can easily be connected to your applications or to several of our home automation kits on these pages: K8006 Base unit for home modular light system (P / N 239484EX), K2633 relay card kit (P / N 239476EX), K8000 computer interface card kit (P / N 128928EX), K6714 universal relay card kit (P / N 128910EX).

- Max. 8 definable keys
- LED status indication for each key/output
- Soft-touch see-through panel with 8 keys
- Backlight with dimming function
- Unique key-click feedback
- Design mounting bezel unit included
- Easy board-to-wire jumpers
- 4 different jumper selectable functions can be setup as: 8 independent keys (toggle or momentary key); 8 radio keys (simulation for rotary switch); 4 radio and 4 independent keys; single key is reserved for memory key or all clear key
- Size: 6.5"L x 3.5"W x 1.4"H
- 8 open-collector switches, 50V@100mA max.

Part No.	Product No.	Price
239468EX	K8046 8-channel touch panel	$99.95

Computer Control Interface

▲ *301-piece kit*



Connects to printer port without interruption of the printer. Works in control applications such as the infrared transmitter / receiver (P / Ns 120555EX and 120547EX, right).

- 16 I/Os with optocouplers
- Analog outputs: eight 6-bit (64 steps), one 8-bit (256 steps)
- Analog inputs: four 8-bit (256 steps)
- Full opto-isolation with computer
- 3.5" driver disk w/ routines in C++, QBASIC, Turbo Pascal
- Dimensions: 9.3"L x 5.3"W
- Weight: 1.7 lbs.

Requires: DB25 cable (P/N 65787EX, pg 80)

Part No.	Description	Price
128928EX	K8000 Computer control kit	$139.95

See pages 81-87 for our selection of DIY remote-controlled lighting and home security solutions.

15-Channel Infrared Transmitter & Receiver

■ *64-piece kit*

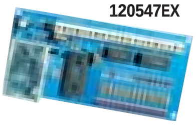
120555EX

- Applications: remote on-off switch, alarms, garage door opener, etc.
- 15 independent channels
- Transmitter/receiver range: ±30 meters

120555EX Transmitter:

- Kit pieces: 37
- Weight: 0.7 lbs.

Requires: 9VDC battery (not included); see below


120547EX

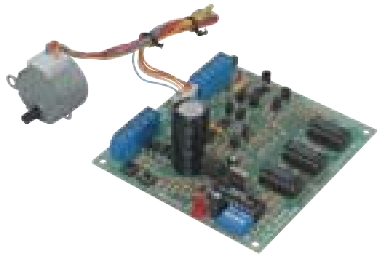
120547EX Receiver:

- Each of the 15 outputs can be a change-over or pulse contact switch
- Output: 50VAC @ 500mA max.
- PCB dimensions: 2.8"L x 5.7"W
- Kit pieces: 76
- Weight: 0.5 lbs.

Requires: 8-14VDC power supply (not included); see below

Part No.	Description	Price
120555EX	K6710 15-channel transmitter.............	$69.95
120547EX	K6711 15-channel receiver......................	49.95
198791EX	9 volt battery	2.85
129314EX	14VDC@350mA power supply	5.19

Stepper Motor Controller Card and Motor Kit ■ *102-piece kit*



This kit is very useful in any home automation project where positioning is needed (i.e. controlling valves, HVAC duct dampers, controlling natural light through window blinds, remotely turning down water heaters, or any home robotic projects). This controller card can be used with P / N 128928 (K8000 – computer interface board) and 16 of these kits can be connected to a single computer interface board. Bipolar and unipolar motors can be used with this controller card (1A maximum) and this kit comes with a high precision stepping motor (0.9 degree stepping angle).

- IC controlled via P/N 128928 (K8000)
- Adjustable drive speed
- Check status of switches via computer interface board or drive another motor
- Emergency stop can be sent to one or all cards
- Programmable in Visual Basic, Turbo Pascal for DOS, Quick Basic (Windows® 95/98/ME)
- Power supply: 7 – 25VAC or VDC @ 1.5A
- Board dimension: 3.9"L x 3.5"W

Part No.	Product No.	Price
263628EX	K8005	$59.95

More Kits @ www.Jameco.com/Kits

Visit our website for our complete selection of kits.

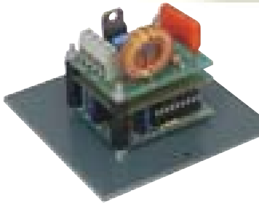
Remote-Controlled Dimmer with Manual Touch-Pad Kit ■ *45-piece kit*

This single channel IR receiver / dimmer works together with the 15-channel IR transmitter P / N 120555 (K6710). The receiver code can be set to 1 of the 15 transmitter codes so that 15 receivers can be operated independently of each other. This can be used in a number of applications such as light dimmers, garage door openers, and security applications. With its compact design, it fits into a standard light switch housing.

- 4 identification codes, 15 channel codes
- 2 memories for preserving dim states or on/off
- Maximum load: 2A (4A with heat sink)
- Supply voltage: 220VAC (50/60Hz)
- Max. transmitter / receiver distance: 7m (23 feet)

Part No.	Product No.	Price
263687EX	K6712	$58.95

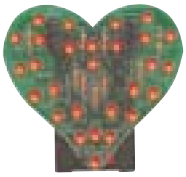
Front



Back

Love is in the air…The perfect gift for that someone special!

46-Piece Beating Heart Kit

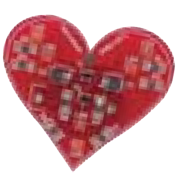


This kit shows a beating heart. Give it to someone you love.

- Power consumption: 8mA
- Requires 9V battery (not included)

Part No.	Description	Price
147555EX	Sweetheart kit	**$11.95**
198791EX	9 volt battery	**2.85**

26-Piece SMT Flashing Heart Kit

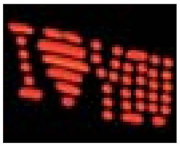


Now introducing our new Flashing LED Heart kit in surface mount technology. Miniature components make it small enough to be worn around the neck or pinned to your shirt. An ideal introduction to SMD technology and it's a great attention grabber.

- 6 LEDs flash alternately
- Size: 1.9"L x 1.7"W x 0.3"Thick
- Requires 3V lithium button cell battery (CR2025 or CR2032) not included.

Part No.	Description	Price
242739EX	Sweetheart kit	**$9.95**
14162EX	CR2032 coin cell battery	**1.25**

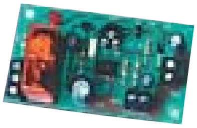
Display your message in thin air!



Tell the world how you feel! Just wave this high-tech wand, and messages seem to float in the air, lit up with bright LEDs. Great for kids, parties or even to display distress messages. Your kit-building skill and the magic of electronics make it possible. Plenty of built-in messages come ready-to-run, or program in your very own 7-character memo. Requires two AAA batteries (listed below).

Part No.	Description	Price
239441EX	Magic message kit	**$19.95**
249228EX	AAA batteries (4-pack)	**2.20**

1 Second - 3 Minute Timer Module



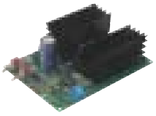
- Output contact rating: 5A @ 200VAC
- Size: 3.0"L x 1.7"W x 1.2"H

Requires: Power supply 12V @ 50mA (recommend P/N 100095EX, see website)

CEBEK

Part No.	Description	1	10
147871EX	1 second to 3 minute timer	**$19.95**	**$17.95**
100095EX	12VDC@200mA power supply	**3.95**	**3.49**

Lead Acid Battery Charger Kit

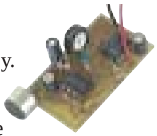


Charge and maintain both open and sealed type 6V or 12V lead-acid batteries. Can be hooked-up to the unit for an indefinite time, and will be kept in optimal condition. Selectable battery type and charge current, while the charging process is fully automatic. Requires a 18V / 25VA transformer (not included; P / N 149956EX see web).

- Charge current: 0.3 or 1 amp (selectable)

Part No.	Product No.	PCB Dimensions	Price
239521EX	K8012	3.8"L x 5.5"W x 1.6"H	**$39.95**

Super Snooper Big Ear Audio Amplifier Kit ■ *17-piece kit*



Listen through walls, hear conversations across the room or listen to sounds a block away. Add a parabolic reflector or mount the microphone in a tube, to isolate unwanted noise and make a directional microphone.

- Operating voltage: 9VDC (recommend P/N 151095EX, pg 30)

Includes: Instructions, outputs for speakers or headsets and schematic

Part No.	Dimensions	Price
151204EX	1.8"L x 1.0"W x 0.6"H	**$10.95**

Flex Sensor

- Nominal resistance:10kΩ
- Max. resistance: 30kΩ to 40kΩ, proportional to the degree of flexing or bending
- Applications: virtual reality data gloves, robotic, bio-metric, physics and engineering

Part No.	Description	Price
150551EX	Flex sensor	**$12.95**

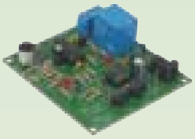
Electronic timer, a perfect gift!

■ *26-piece kit*

This fun-to-build kit is a perfect introduction to the wonderful world of electronics. When it's finished, this handy timer times events up to one hour in one minute increments using one-button. It's a perfect addition for your kitchen. 16 LEDs keep the count, and the auto-off feature helps batteries last longer. Requires three AA batteries (not included).

Part No.	Description	Price
239409EX	Kitchen timer kit	**$19.95**
249210EX	AA batteries (pack of 4)	**2.56**

Clap-On, Clap-Off

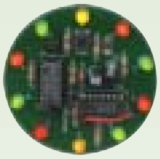


■ *42-piece kit*

Learn all about sonic remote control, and then enjoy the benefits of clap-on, clap-off convenience. Control lights or other appliances (up to 24VDC at 3 amps) with adjustable one-clap or two-clap activation. LED indicator, microprocessor precision, and 5-hour "off" timer are among the advanced features of this easy-to-build kit. Requires 12VDC @ 15mA power supply (not included).

Part No.	Description	Price
242747EX	Clap-on, clap-off kit	**$19.95**
127976EX	12VDC @ 15mA power supply	**4.75**

Wheel of Fortune

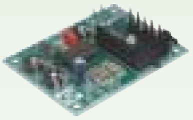


■ *26-piece kit*

This electronic wheel-of-fortune kit is a great way to have family fun on the road or at home. Push a button and 10 LED's imitate a spinning wheel gradually decreasing speed until it stops, lighting up one LED. Create your own faceplates with different cash rewards, gifts and other prizes. Carry everywhere and play your favorite game. Requires 9V battery (not included).

Part No.	Description	Price
242755EX	Wheel of fortune kit	**$9.95**
198791EX	9 volt battery	**2.85**

Police Siren



■ *17-piece kit*

Enter the world of amazing electronic sounds and noises. Create and imitate sirens of all kinds by adjusting 3 controls on the circuit board. Powerful sound with a 2W amplifier on the PCB. Requires 8-14VDC @ 1A power supply (not included).

Part No.	Description	Price
239450EX	K2604 Police siren kit	**$14.95**
189325EX	8-14VDC @ 1A power supply	**11.19**

Quartz Clock Mechanism

Quartz clock mechanism for your self-made clock or as a replacement for damaged wall clocks. Suspension clip included. Requires one AA battery (not included). Size: 2.2"L x 2.5"W x 0.6"T.

Part No.	Description	Price
239661EX	Clock mechanism	**$3.49**
249210EX	AA batteries (pack of 4)	**2.56**

Motorized wooden kits, ideal for your child.

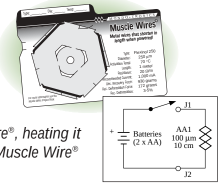
Your child will love building these kits and watching them walk. These kits come with "kid friendly" pre-punched wooden parts, gearbox, gears, shafts, switch, motor, and battery holder. A marvelous educational science project for ages 8 and up, and a great way to learn about gears and transmissions. These kits require no glue or soldering, just a few simple hand tools, and 2 AA batteries, (not included). Your kids will be building these kits in no time.

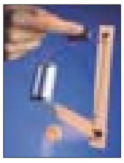
- Gear driven transmission
- Requires: knife, screw driver, and long-nose pliers

Part No.	Description	Price
242915EX	Stegosaurus kit	**$16.95**
242923EX	Tyrannosaurus kit	**16.95**
249210EX	AA batteries (pack of 4)	**2.56**

MONDO•TRONICS Flexinol Muscle Wires®

These unique nickel-titanium alloy Muscle Wires® actually shorten in length when electrically powered, and can lift thousands of times their own weight. Length: 1 meter.





How it works… *Pressing the switch lets power flow from the batteries through the Muscle Wire®, heating it and causing it to contract and raise the lever and lift the weight. When power is removed, the Muscle Wire® cools and relaxes, and the weight helps it return to its starting position.*

Part No.	Desc.	Linear Wire Dia. (microns)	Typical Resistance (ohm/m)	Deform Current (mA)	Recovery Weight* (grams)	Weight* (grams)	Typical Rate**	Pricing 1	Pricing 10
141321EX	100LT	100	150	180	28	150	33	**$15.95**	**$14.49**
141874EX	150LT	150	50	400	62	330	20	**16.95**	**15.29**
160055EX	375LT	375	8	2750	393	2000	4	**19.95**	**17.95**

** Multiply by 0.0098 to get force in Newtons* *** Cycles per minute, in still air, at 20° Centigrade*

Climax Spider Shaft Couplers

209285EX/106606EX:
- 1 set screw per hub
- Hub OD: 0.625"Dia.
- Hub length: 0.56"

138288EX:
- 2 set screws (10-32 x 1/8)
- Size: 0.75"L x 0.5"D

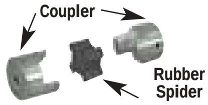
209285EX

138288EX

Part No.	Description	1	10	100
209285EX	.156" shaft hub	$.85	$.65	$.39
138288EX	.250" sleeve coupler	**4.49**	**4.05**	**3.65**

Spider Couplers

- Used with motors
- 1 set screw/hub
- Hub OD: 0.625" Dia.
- Hub length: 0.56"
- Parts sold individually



162288EX (Coupler); 162000EX (Spider)

Part No.	Description	1	10	50
162288EX	.125" (3.18 mm) hub	$1.35	$1.15	$.86
161998EX	.197" (5.00 mm) hub	**1.09**	**.89**	**.59**
162270EX	.250" (6.35 mm) hub	**1.35**	**1.19**	**1.09**
162000EX	Rubber spider	**1.29**	**1.15**	**1.05**

PowerFilm. Flexible Thin Film Solar Modules

Wireless Electronics Series

The wireless electronics series offers a new opportunity to solve the old problem of limited-power for wireless electronics in portable and remote applications. These modules are lightweight, paper thin, and durable. With their ultra-film profile, they are easily integrated with devices for solar recharging or direct powering. Specifically developed to recharge AA, AAA, plus 6 and 12 volt batteries.

228064EX

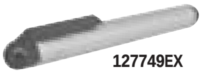
Part No.	Product No.	Operating Voltage (V)	Operating Current (mA)	Size (L x W x T) Inches	Size (L x W x T) mm	Pricing 1	Pricing 10
227985EX	SP3-37	3.0	22	2.5 x 1.5 x .01	64 x 37 x 0.2	**$3.89**	**$3.49**
227993EX	TX 3-25	3.0	25	4.5 x 1.0 x .01	114 x 25 x 0.2	2.89	2.45
228013EX	MPT3.6-75	3.6	50	2.9 x 3.0 x .01	74 x 75 x 0.2	**8.89**	**7.99**
228021EX	MPT3.6-150	3.6	100	2.9 x 5.9 x .01	74 x 150 x 0.2	**17.89**	**15.99**
228030EX	SP4.2-37	4.2	22	3.3 x 1.5 x .01	84 x 37 x 0.2	**5.89**	**5.29**
228048EX	MPT4.8-75	4.8	50	3.7 x 3.0 x .01	97 x 75 x 0.2	**11.89**	**10.69**
228056EX	MPT4.8-150	4.8	100	3.7 x 5.9 x .01	94 x 150 x 0.2	**22.89**	**20.59**
228064EX	MPT6-75	6.0	50	4.5 x 3.0 x .01	114 x 75 x 0.2	**13.89**	**12.49**
228072EX	MPT6-150	6.0	100	4.5 x 5.9 x .01	114 x 150 x 0.2	**27.89**	**24.99**
228081EX	MP7.2-75	7.2	100	10.0 x 3.0 x .02	253 x 75 x 0.6	**24.89**	**22.39**
228099EX	MP7.2-150	7.2	200	10.0 x 5.9 x .02	253 x 150 x 0.6	**39.89**	**37.99**
228101EX	MPT15-75	15.4	50	10.0 x 3.0 x .02	253 x 75 x 0.6	**26.89**	**24.29**
228110EX	MPT15-150	15.4	100	10.0 x 5.9 x .02	253 x 150 x 0.6	**44.89**	**42.99**

We're always looking for suggestions and feedback about the products we offer. Help us better supply more of the products you need. Feel free to drop us a line at:

AtHome@Jameco.com

ALPEC Laser Pointer Pens

153605EX


127749EX

- Range up to 500 yards
- 670nm red laser

Class IIIa Laser Products

Includes: 2 AAA batteries

Part No.	Description	Size (L" x Dia")	1	10
153605EX	Black pen	5.2 x 0.4	**$19.95**	**$17.95**
127749EX	Silver brass	5.4 x 0.4	**21.95**	**19.95**

Glass-Lens Red Laser Diode and Line Generator

133292EX: Laser Diode Class IIIa Laser Product

This lens design uses 3-element glass to collect almost all the power from the laser diode resulting in a brighter spot than many typical laser applications.

133292EX

- Operating voltage: 4.0–6.0VDC (recommend P/N 112070EX, pg 24)
- Maximum output: 4mW
- Beam size at 7m: oval – 5mm x 8mm
- Wavelength: 660nm
- Beam divergence: 0.2mrad
- Green LED indicator
- Module size: 2.0"L x 0.5"W

134148EX

134148EX: 60° Line Generating Lens
- Adjustable focus range: 50 cm to ∞
- Back focal length: 1.5mm
- Focal length: 8.0mm
- Beam divergence: 2.0mrad
- Lens construction: 3E.3G (glass)
- Fan angle: 60°
- Length at 1 meter distance: 1.7 m

Part No.	Description	1	10
133292EX	Glass laser diode	**$44.95**	**$39.95**
134148EX	60° lens	**12.95**	**11.49**

Laser Diode Module

Class IIIa Laser Product

- Operates on 3VDC @ <5mW
- 670nm wavelength
- Beam diameter: 3.2mm
- Working distance: over 50 meters/yards (daylight), 200 meters/yards (dark)
- Size: 0.9"L x 0.3"Dia.
- One-year warranty

Part No.	Description	1	10	25
131203EX	Laser module, brass	**$44.95**	**$40.49**	**$36.45**

Laser Diode and Driver

182932EX: Laser Diode Class IIIa Laser Product

182932EX

- Optical output power: ≤5mW maximum
- Operating current: 30mA
- Operating voltage: 2.6V maximum
- Lasting wavelength: 650nm typical
- 5.6mm packaging size
- Beam divergence: 11° from center

161736EX

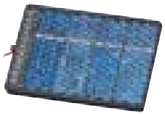
161736EX: Laser driver w/ regulator
- Input voltage: 2.6-6VDC
- Input current: 40mA

Part No.	Description	1	10
182932EX	650nm laser diode	**$11.95**	**$10.79**
161736EX	Laser driver	**7.95**	**6.95**

velleman Solar Cells

The perfect solar cells for students and experimenters in these rugged cases.

- Connection: lead


200221EX

200221EX: 2V @ 200mA **215319EX:** 3V @ 100mA
215327EX: 6V @ 200mA

Part No.	Product No.	Size (LxW)	1	10
200221EX	SOL4	3.0" x 3.7"	**$8.99**	**$7.99**
215319EX	4-3.0-100	3.8" x 2.5"	**14.29**	**12.89**
215327EX	4-6.0-50	3.8" x 2.5"	**15.79**	**14.39**

Illuminate the heavens…or just your presentation 20 football fields away.

Ultra-intense green beam is much brighter, goes much farther and is easier on the eyes than standard red lasers.

Best Seller

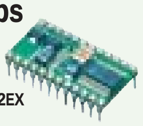
Even the sleepiest audience will sit up and salute when you whip out a laser pointer that's green, not red…and so bright, you could be standing nearly half a mile away. Using a wavelength closely matched to the highest sensitivity of the human eye and built with cutting-edge crystal technology, this laser projects a green beam so powerful you can see it against a clear sky at night. You won't believe how bright it is. Metal gift box, clip and 2 AAA batteries included. Power output <5mW. Wavelength: 532nm. 90-day mfg. warranty.

Part No.	Description	Price
223731EX	Green laser pointer	**$199.95**

PARALLAX BASIC Controllers and Engineering Modules

SALE BASIC Stamps

127693EX

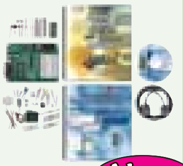

130892EX

BASIC Stamps are small computers using a variation of BASIC to control execution of many applications. The BS1-IC has 8 I/O lines, while the BS2-IC has 16 I/O lines which can be connected directly to buttons, LEDs, registers, and many other TTL level devices. Store data in the EEPROM before downloading a BASIC program.

Specifications:	127693EX	130892EX
EEPROM	256 bytes	2048 bytes
RAM	16 bytes	32 bytes
Cur. Draw @ 5V	2mA run/20µA	8mA run/100µA
Microcontroller	PIC16C56	PIC16C57
Program speed	2000/sec.	4000/sec.
# of I/O Pins	8	16 + 2 serial
Package	14-pin SIP	24-pin DIP

Part No.	Parallax No.	1	10
127693EX	BS1-IC	$28.95	$28.29
130892EX	BS2-IC	48.95	43.95

BS2 Educational Starter Kit

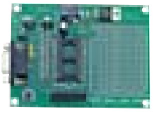


"Getting Started" kit is enhanced to include the What's a Microcontroller? (WAM) curriculum and includes all of the BASIC Stamp hardware required to complete the activities and challenges. NEW

Includes: BASIC Stamp 2 module, Board of Education Programming Board, BASIC Stamp Manual, CD-ROM, jumper wires and a serial cable

282829EX	27207	$158.95	$152.95

BASIC Stamp Prototyping Boards

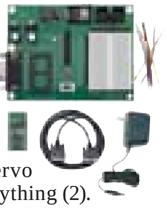

164726EX

- Easy use of Stamp with prototyping area, 9-volt battery clips, I/O header, reset button, and programming connector

130921EX: Use w/ P/N 130892EX, top
164726EX: Use w/ P/N 127693EX and 130892EX

Part No.	Parallax No.	1	10
130921EX	27120	$23.95	$22.95
164726EX	27130	58.95	52.95

Board of Education Full Kit



The new Board of Education has two major changes. The jumper will select either Vdd (5V) or Vin (unregulated input voltage) to power the servos and the three-position power switch is either off (0), power to everything but servo connectors (1) or power to everything (2).

- Mechanically interlocked power supply to prevent dual connection of wall pack and 9V battery
- DB9 connector for BS2-IC programming and serial communication during run time
- Female 10-pin dual row connector for optional AppMods
- P0 – P15 I/O pins

Includes: Board of Education carrier board, BASIC Stamp 2 module, pluggable wires, serial cable, CD-ROM and power supply

Part No.	Parallax No.	1	10
283101EX	28102	$118.95	$96.99

NEW

BASIC Stamp 2P Modules

184911EX

New commands for HD44780 compatible LCDs, Dallas Semiconductor 1-wire & Philips I2C parts.

- RAM size: 38 bytes
- Program execution speed: 12,000 instructions/sec.
- Scratch pad RAM: 128 bytes
- Program size: 8 x 2k bytes, 4,000 instructions
- Current draw @ 5V: 40mA run; 400µA sleep

184911EX: • Number of I/O pins: 16 + 2 serial
184920EX: • Number of I/O pins: 32 + 2 serial

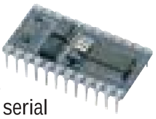
Part No.	Parallax No.	1	10
184911EX	BS2P24-IC 24-pin	$78.95	$70.95
184920EX	BS2P40-IC 40-pin	97.95	88.95

Stamp Works

Go beyond theory, into a well-written collection of 32 experiments that will teach you first class BASIC Stamp programming. Get the most out of the BASIC Stamp by connecting to active & passive components.

Part No.	Parallax No.	Price
184946EX	27297	$348.95

50MHz BASIC Stamp 2SX Module



- Microcontroller: Ubicom SX28AC
- Program execution speed: 10,000 instructions/sec.
- EEPROM program size: 8 x 2k bytes, 4,000 instructions
- Current draw @ 5V: 60mA run/200µA sleep
- RAM size: 32 bytes
- Volts required: 5-12 VDC
- Scratch pad RAM: 64 bytes
- Number of I/O pins: 16 + 2 serial

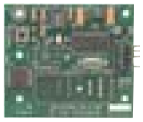
Part No.	Parallax No.	Description	Size	1	10
159775EX	BS2SX-IC 24-pin	BS2-IC with additional RAM & EEPROM	1.2"L x 0.6"W	$58.95	$52.95

Test & Measurement

Accelerometer Evaluation Boards

Dual Axis

Crossbow


177308EX

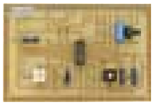
Evaluation board for the ADXL202, dual axis, 2g accelerometer.

177308EX: features RS-232 interface to connect to PC serial ports. Also includes software to display real time acceleration data.

Part No.	Product No.	Description	1	10
177287EX	ADXL202EB	Dual axis	$59.95	$53.95
177308EX	ADXL202EB-232	w/ RS-232	159.95	144.95

Function Generator ■ 21-piece kit

Sine, Triangle and Square Wave



Great for prototyping electronic circuits. Produces waveforms at frequencies continuously variable from 1Hz to 100kHz.

- Dimensions: 4.1"L x 1.5"W

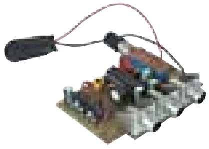
Requires: 12VDC supply or ±6VDC split supply (recommend P/N 20626EX, top right)

Part No.	Description	1	10
20685EX	JE2206 function generator kit	$24.95	$22.95

Audio and Amplifier Kits

FM Stereo Transmitter Mini

■ *37-piece kit*



Run your own FM radio station! Plug any stereo signal into this unit and it will be transmitted to any FM radio. Tuneable from 76–108MHz. Plug in a CD player or tape deck and you have a wireless link to an FM radio within 200 feet.

- Dimensions: 2.7"L x 2.0"W
- Separation 40dB

Requires: 9VDC power supply (recommend P/N 151095EX, pg 30)

Part No.	Description	1	10
151239EX	FMST-100 stereo kit	$29.95	$26.95

velleman 30-Watt Stereo Power Amplifier ■ 38-piece kit

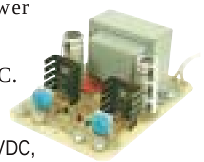
General purpose stereo amp for audio applications.

- RMS output: dual 15W @ 4Ω or dual 10W @ 8Ω
- Frequency bandwidth: 7Hz to 60kHz (-3dB) • Separation: 70dB
- Supply voltage: 24VCT @ 2A (recommend P/N 101864EX, pg 22) • Dimensions: 2.8"L x 2.0"W

Part No.	Description	1	10
129138EX	K4003 Stereo power amp. kit	$29.95	$26.95

Power and Motor

Dual Adjustable Regulated Power Supply ■ 48-piece kit



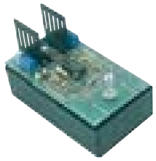
Build a dual adjustable power supply for your circuits. Outputs positive-negative voltages from ±5 to ±15VDC.

- 120VAC input
- Adjustable positive and negative supplies ±5 to ±15VDC, 175mA – 750mA per supply
- LED on indicator • PC board construction
- Dimensions: 5.1"L x 3.5"W x 2.0"H • Wt.: 2.1 lbs.

Includes: Components and hardware

Part No.	Description	1	10
20626EX	JE215 power supply kit	$22.95	$20.49

DC Motor Speed Control ■ 35-piece kit



- Uses Pulse Width Modulation to vary the speed of a DC motor & maintain torque
- For motors up to 100VDC/5A max.
- Dimensions: 3.6"L x 2.3"W x 1.2"H

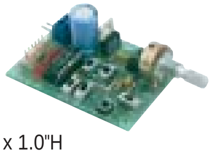
Requires: 5-16VDC supply (recommend P/N 114825EX, see website)

Part No.	Description	1	10
127829EX	Motor control kit	$19.95	$17.95

Power and Motor

Unipolar Stepper Motor Driver

■ *29-piece kit*

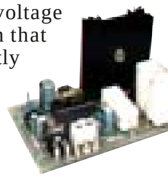


- Will drive unipolar stepper motors rated up to 6-30VDC @ 1.25A
- Onboard 5VDC regulator
- Drives 5, 6 or 8 lead unipolar stepper motors
- Dimensions: 2.6"L x 1.9"W x 1.0"H

Part No.	Description	1	10
139109EX	Stepper motor kit	**$29.95**	**$26.95**

DC to Pulse Width Modulator

▲ *40-piece kit*



The circuit converts a DC voltage into a series of pulses, such that the pulse duration is directly proportional to the value of the DC voltage.

- PWM range: 0 to 100%
- PWM frequency: 100Hz to 5kHz (adjustable)
- Operating voltage: 8 to 35VDC
- Min. consumption: 35mA
- Max. output current: 6.5A
- Efficiency: better than 90% at full load
- Adjustable sensitivity: 2.5 to 35VDC
- Dimensions: 3.3"L x 1.9"W x 1.8"H • Weight: 0.5 lbs.

Part No.	Descrition	1	10
120539EX	K8004 modulator kit	**$22.95**	**$20.49**

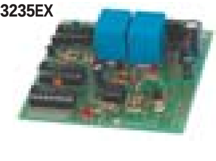
Receivers

RF Code Lock Receivers

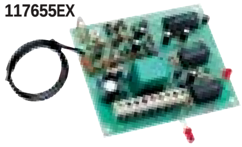
▲ *75-piece kit*

- Use for car alarms, garage doors, door locks, etc.
- Over 8000 selectable codes
- Use several transmitters with one receiver
- Receivers feature relay output (10A change-over or pulse contact)
- Range: 100 ft.

173235EX



117655EX



173235EX (2-channel)

117655EX (1-channel)

• 75 piece kit • Weight: 0.5 lbs.

Requires: 12-16VDC @ 100mA (recommend P/N 100095EX, see website)

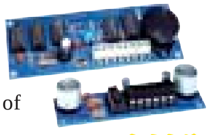
Part No.	Description	1	10
173235EX	K6727 2-ch receiver (RF) kit	**$39.95**	**$35.95**
117655EX	K6707A 1-ch receiver (RF) kit ...	**29.95**	**26.99**

More @ www.Jameco.com

Distance and LED

Parking Radar

■ *55-piece kit*



Parking in tight places can be difficult, but this unit can tell you when you have come within an adjustable preset distance of the object behind you.

SALE

- Transmitter frequency: 40kHz
- Detection range: 5cm – 1.5m; angle: 5°
- PCB size: base (4.9"L x 1.9"W) sensor (3.8"L x 1.1"W)

Requires: 10-15VDC @ 16mA max (recommend P/N 100095EX, see website)or auto power plug (recommend P/N 115001EX, see website)

Part No.	Descrition	Price
129120EX	K3502 parking radar kit	$39.95

Distance Sensor Modules

Sends out a sound wave 20 times per second and calculates the distance based on the time differential between send and receive signals. The distance is represented by an output voltage from 0 to 10VDC (P / N 134105EX) or RS-232 signal (P / N 151482EX).

134105EX

151482EX

- Sensing range: 4" to 60"
- Sensor diameter: 1.8"
- Board size: 2.8"L x 1.8"W x 0.9"H
- One-year warranty

Requires: 15 to 24VDC @ 40mA (not included), recommend P/N 114825EX, see website

134105EX:

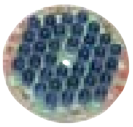
- Each 1VDC increment = 5.6" (e.g.: 1VDC output = 9.6")
- Output voltage: 0-10VDC • Weight: 0.2 lbs.

151482EX: • RS-232 output • Weight: 1.0 lbs.

Includes: Disk and computer cable

Part No.	Description	1	10
134105EX	Sensor – voltage output ..	**$159.95**	**$143.95**
151482EX	Sensor – RS-232 output	**179.95**	**161.95**

IR LED Illuminator ● *41-piece kit*



- Improve low-light camcorder and CCD camera images without visible light
- 36 high powered infrared LEDs
- At 24' the beam is approximately 3.5' across
- Dimension: 2" diameter

Requires: 12-15VDC power supply (recommend P/N 114825EX, see website)

Ideal for CCD Cameras

Part No.	Description	1	10
157964EX	IR Illuminator kit	**$16.95**	**$15.29**

Robotic Kits

Robotic Arm Trainer

▲ *109-piece kit*

Five Axes of Motion

Test your motor skills as you build and control the arm. This unit can be commanded or instructed through its five-switch wired controller with lights to grab, release, lift, lower, rotate wrist, and pivot sideways.

- Max. length outwards: 14.2"
- Max. height upwards: 20.1"
- Max. lifting capacity: 4.6 oz.
- Shoulder movement @ 120°
- Elbow moving range @ 135°
- Grip opens to 2" wide
- Wrist rotation clockwise or counter clockwise @ 340°
- Rotates left to right at the base @ 350° • Wt.: 4.5 lbs.

Requires: 4 D batteries (not included)

Part No.	Description	Price
157366EX	Robotic arm kit (unassembled)	**$74.95**
159345EX	Controller sftwr (DOS 4.2 & Up, WIN 95/98)	**84.95**

Line Tracking Robot

▲ *134-piece kit*

Watch as this robot follows a black line you specify. Utilizes infrared light to detect the line and control direction. This educational kit utilizes the same line follow principle of many industrial robots.

- Dimensions: 12.0"L x 7.0"W x 3.5"H • Wt.: 1.1 lbs.

Part No.	Description	Price
140839EX	Line tracker kit	**$49.95**

Obstacle Avoidance Robot

▲ *107-piece kit*

Six crank motion legged robot utilizes an infrared light sensing system to find obstacles and maneuvers itself around them. This IR detection kit includes an infrared diode, photo diode, IC, 2 DC motors and all hardware.

- Dimensions: 12.0"L x 7.0"W x 3.5"H

Part No.	Description	Weight	Price
140821EX	Spider kit	1.2 lbs.	**$59.95**

High-Efficiency Robotic Servo

- Supply voltage: 4.8-6 volts
- Torque: 49 oz.-in. @ 4.8V
- Speed: 16 seconds to 60°
- Size: 0.8"W x 1.4"D x 1.6"H

Part No.	Mfr. Cross Ref.	1	10
157067EX	14500	**$19.95**	**$17.95**

8-Pitch Gears and Gear Set

- Works with DC motors with 0.08" shaft diameter
- Heavy-duty plastic construction • Pitch: 0.125"

Includes: 2 each of the following: T10, T20, T30, T40, T50 and 10 bushings

Part No.	Mfr. Cross Ref. No.	Description	1	10
131801EX	GA1	Gear set – 20 pieces (see description above)	**$7.99**	**$7.29**

16-Pitch Sprocket Set and Chain

14-piece sprocket set includes:

1 each of the following: 8, 9, 10 teeth at ⅛" bore size; 12, 15, 16, 18, 20, 24, 30, 32, 36, 40 and 48 teeth at ¼" bore size

Part No.	Mfr. Cross Ref. No.	Description	1	10
168276EX	8890	Sprocket set - 14 pieces (description above)	**$29.49**	**$26.49**

Programming & Customizing PICmicro Microcontrollers

Second Edition

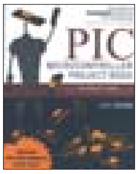
McGraw-Hill Details the features of the PICmicro® and how to use these embedded chips to access and control many different devices. Shows what happens within the PICmicro® when an instruction is executed and how it interfaces with external devices. (1190 pages, 2001)

Includes: CD-ROM and PIC PCB

Part No.	Description	Price
183046EX	PICmicro Programming	$49.95

PIC Microcontroller Project Book

Comprehensive Beginner's Guide



McGraw-Hill Provides you with hands-on directions for putting Microchip's RISC-based chips with up to 8k of memory to work. Starting with simple projects and experiments, this book leads you gradually into sophisticated programming techniques. Provides you guidance on getting the equipment you need and programming your chip. (203 pages, 2000)

Part No.	Description	Price
174650EX	PIC Beginner's Guide	$29.95

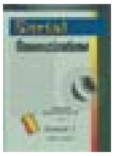
PIC BASIC Programming and Projects

Newnes Publications The BASIC language, as used by the most popular PIC compilers, is introduced from square one, with simple code used to illustrate each of the most commonly used instructions. PIC BASIC is the simplest and quickest way to get up and running – designing and building circuits using a microcontroller. (210 pages, 2001) • Size: 6.1" x 9.2" • Weight: 0.8 lbs.

Part No.	Description	Price
200168EX	PIC BASIC Programming	$34.95

Serial Communications

Serial Communications PIC Applications



Square 1 Publishing Topics such as asynchronous serial communications, RS242 standard, ASCII character code, bit-bang asynchronous communications, synchronous serial communications to name a few are covered in this book as well as tool box modules and applications. (566 pages, 2002)

- Size: 8.6" x 11.0" • Weight: 3.5 lbs.

Part No.	Description	Price
210497EX	Serial Communications	$49.95

TTL Logic Data Book

Texas Instruments Contains specifications and technical information on a broad line of TTL integrated circuits including Schottky TTL circuits.
(1240 pages, 1988)

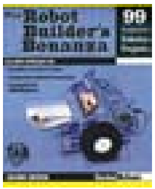
Part No.	Description	Price
88225EX	TTL Logic Data Book	$34.95

Electric Motors and Control Techniques

TAB Publishing
Explains how different types of motors operate, and how electronic control devices can be used to improve efficiency in a wide range of applications.
(294 pages, 1994)

Part No.	Description	Price
137162EX	Electric Motors & Control	$24.95

Robot Builder's Bonanza



TAB Publishing
This fascinating guide offers you a complete, unique collection of tested and proven project modules that you can mix and match to create an almost endless variety of highly intelligent and workable robot creatures.
(753 pages, 2001)

SALE

Part No.	Description	Price
137171EX	Robot Builder's Bonanza	$17.95

Robot Builder's Source Book

McGraw-Hill
Everything you need to find and acquire common and uncommon robotic parts and supplies. Jameco and over 2500 mail order suppliers and other sources, including local and international businesses all cross-referenced and categorized to make your search quick and easy. (711 pages, 2003)

- Size: 8.5" x 10.0" • Weight: 3.9 lbs.

SALE

Part No.	Description	Price
213461EX	Robot Builder's Source Book	$16.95

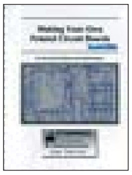
Electric Motors and Serial Port Complete

Lakeview Research
RS-232 and RS-485 are the most versatile, inexpensive interfaces for linking, but the hardware and programming are often misunderstood. This book provides you with everything you need to design, program, install and troubleshoot the links you set up (306 pages, 1998)

Includes: 3.5" diskette

Part No.	Description	Price
154771EX	Serial Port Complete	$39.95

Making Your Own Printed Circuit Board Book



JV Enterprises No darkroom or special equipment needed. Shows steps for drilling and shaping your printed circuit board and the materials you will need. (91 pages)

- Size: 8.5" x 11"
- Weight: 0.5 lbs.

Part No.	Description	Price
141524EX	Making PCBs Book	$19.95

Complete Embedded Ethernet and Internet Book

Lakeview Research A guide to designing and programming embedded systems to communicate in local Ethernet networks and on the Internet. This book is organized for anyone who wants to design, program, or learn about networking with embedded systems. Topics include networking basics, hardware options in building a network, using internet protocol in local and internet communications, serving web pages, etc. (482 pages, 2003)

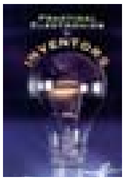
Part No.	Description	Price
236945EX	IC Design Projects Book	$44.95

Everything You Need To Develop Custom USB Peripherals Book

Lakeview (2nd Edition)
This USB Complete book provides an easy-to-use interface for computer peripherals. The book covers topics such as what USB can do, transfer types, chip choices, what's inside a USB controller, writing firmware, how the host communicates and more. (523 pages, 1999)

Part No.	Description	Price
171900EX	Complete USB Book	$49.95

Practical Electronics Book for Inventors



McGraw-Hill Provides information needed for practical use in a format you can understand. With hand-drawn illustrations, this learn-as-you-go guide shows you what a particular device does, looks like and compares with other similar devices. Provides an easy-to-understand overview of basic components, resistors, diodes, capacitors, inductors, rectifiers, amplifiers, voltage regulators, discrete passive and active devices and so on. (604 pages, 2000)

Part No.	Description	Price
174529EX	Practical Electronics	$39.95

How to Test Almost Everything Electronic

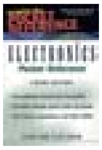
TAB Publishing Filled with easy-to-follow instructions on how to troubleshoot all types of electronic systems. Learn the many uses of electronic tools, test equipment and troubleshooting techniques using flowcharts. (326 pages, 1993)

- Size: 7.4" x 9.3" • Weight: 1.3 lbs.

Part No.	Description	Price
126199EX	How to Test Everything	$17.95

Electronic Pocket Reference

Third Edition



McGraw-Hill Publishing A pocket reference manual that provides definitions, passive component equations and color coding,parameters of standard semi-conductors, linear circuits, filters, power supply and regulation, electronic measurement and mathematical tables and formulas. (529 pages, 2000)

Part No.	Description	Price
174481EX	Electronics Pocket Ref.	$29.95

Summer Sale 15% OFF

Bushnell binoculars for less than $20? Seeing is believing!

Convenient, portable and simple to use, let these compact, factory remanufactured binoculars bring you closer to the action. Insta®-Focus delivers crystal-clear, 12X images while you view. Fully coated lenses and tough rubber armor promise many seasons of trouble-free use. Includes carrying case and neck strap.

Part No.	Description	Price
235571EX	Bushnell sport binoculars	$12.95

A zoom with a view.

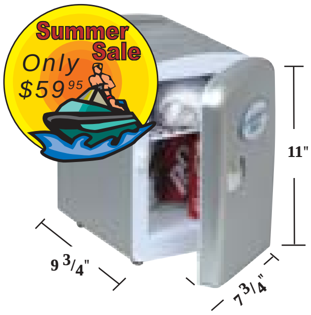
Summer Sale Save $30⁰⁰

Whether you're a sports fan, birdwatcher or amateur PI, these 10x42 binoculars put you right in the middle of the action. They're water-proof and fog-proof for clear, all-weather viewing, and tough rubber armor helps withstand the rigors of all-purpose use. Plus, the zoom-in feature lets you easily adjust for the perfect view. Refurbished to like-new factory specs.

Part No.	Description	Price
236021EX	Bausch & lomb zoom binoculars .... Was ~~$79.95~~	$49.95

Mini cooler/warmer works almost anywhere!

Summer Sale Only $59⁹⁵



Standard Outlet | Car Outlet | Slide Out Shelf | Holds a 6-pak

Don't bother with the nasty office fridge. Keep a six-pack, your lunch, a snack, or anything else cool and at hand; and at optimal refreshment temperature. Our handy, stylish and convenient mini fridge and warmer is high-tech and CFC-free. Cools 20-25˚F from the ambient temperature or keeps food warm at up to a max of 154˚F. The fridge handles a big 4-liter capacity to keep an ample supply of provisions fresh and ready to serve. Auto-shutoff and restart prevents problems.

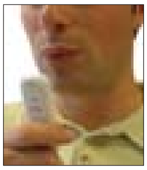
Part No.	Description	Price
219310EX	Mini cooler & warmer	$59.95

The 10-second test that could prevent a lifetime of regret!

No one gets behind the wheel intending to wreck lives. But each year thousands do just that when they misjudge the amount of alcohol in their system. Now there's a simple way to make sure it doesn't happen to you or those you care about.* Alc Alert quickly and discreetly checks blood alcohol level in less than 10 seconds. Just blow as if cooling soup on a spoon. At the sound of 3 beeps, stop and read the results. It's that easy. Buy one for yourself. Give them to everyone you cherish. Makes a thoughtful gift. Party guests actually have fun testing themselves. Gas sensor digital technology measures blood alcohol level (BAC) from .0% to .12%. The backlit display can be read in a dark car. Runs on 2 AAA batteries (included).

*Alc Alert displays blood alcohol level, showing when it's not safe to drive.**

Best Seller



Just breath and get results in seconds.

Part No.	Description	Size	Price
222332EX	Alc Alert breath alcohol detector	3.5" x 1.25" x 0.5"	$49.95

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* No device, no matter how sensitive, can substitute for common sense. If you think your ability to drive may be impaired even slightly, no matter what the test results show—don't drive.

Attach it right to your keychain

Summer Sale 20% OFF

Breathalyzer refills

Greater safety on your key ring!

Everyone should have one ofthese handy checkers on every set of keys. Just blow into the device for 12 seconds, and special crystals inside will turn blue if your blood alcohol level is .08% or above. Infinite shelf life and convenient refill cartridges mean it's always ready to help you stay safe behind the wheel.

Part No.	Description	Price
237294EX	Breathalyzer keychains (pack of 2) Was ~~$21.95~~	$15.99
237307EX	Breathalyzer refills (pack of 5) Was ~~$19.95~~	14.39

See in total darkness. Infrared Monocular gives you an edge.

Like the infrared goggles worn by the U.S. military, Bushnell Night Vision lets you see them, but they can't see you.

See in the dark without disturbing or alerting others. Night Vision Monocular uses military-grade image intensification technology to let you see clearly for up to 300 feet, even in pitch blackness. It's perfect for campers, hunters, hikers and wildlife enthusiasts… essential for surveillance and search-and-rescue work. Night Vision collects and amplifies the minute amount of light that exists even in what we perceive as pitch black. It converts the light into electrons that strike a phosphor screen, producing a detailed image just the way your TV does. High-speed f1.5 objective lens with 2.4X image magnification. FOV of 79 feet at 100 yards. Weighs 17 oz. with 2 AA batteries (included). Comes with roomy padded carry case with adjustable shoulder strap. 1-year manufacturer's warranty.

Part No.	Description	Price
219694EX	Night vision monocular & case ..	$199.00

$H_2$0-proof binoculars offer ringside seating through rain, sea and even spilled beer.

Summer Sale Only $24⁹⁵

The only binoculars you need to own, they'll take you through rain, sleet, snow, & wild weekends.

A great gift idea for the outdoor or concert enthusiast at a fantastic price. These 8X compact Bushnell binoculars are completely impervious to wet weather, boating activities, water sports and even the occasional sailing beverage. And at this price, they're a tremendous value even if you live in the Sahara. Rubber armoring and O-rings seal out moisture. Nitrogen purging eliminates fogging, even in wet weather. Multi-coated optics ensure durability, clarity and reduced glare. Roll-down eyecups accommodate glasses. Offers a center focus, 25mm objective lens, and 370' field-of-view at 1000 yards.

Includes: Carry case with belt loop, neck strap and lens cloth.

Part No.	Description	Price
220409EX	Bushnell H2O binoculars Was ~~$34.95~~	$24.95

3-digit tire pressure guage ensures safer driving.

Maintain manufacturer's suggested tire pressure level for safer driving with this digital tire pressure gauge. Quick and simple to use, it provides accurate P.S.I. or bar readings of tire pressure that helps reduce tire wear and improve fuel consumption. Complete with 2 x LR-44 batteries, the average battey life of this tire pressure gauge is 3,000 measurements.

Buy 3 SAVE $6.00

Part No.	Description	1	3
237331EX	Digital tire pressure gauge	$6.99	$4.99

Open virtually any garage door, while barely opening your wallet.

At this price you can afford to give one to each of the kids, and put one conveniently in each car! Programmable for virtually any existing garage door opener (see below), this one-button wonder augments your current set of garage-door remotes. A long-lasting, replaceable 12-volt battery is included.

Works with the following major brands and models: Genie #AR85 Series, Sears, Stanley, Chamberlain, Craftsman, Linear, Moore-O-Matic, Multi-Code, Wayne Dalton, Lift-Master and Master Mechanic.

Part No.	Description	Price
235539EX	Universal garage door opener	$19.95

Kiss flat-tire worries goodbye!

With these two roadside helpers in your trunk, you can finally have portable peace of mind. Both the powerful impact wrench and the mini air compressor plug directly into the 12-volt lighter socket in your car. With its full set of bits, sockets and adaptors, the wrench will loosen the crankiest lug nuts in short order. The air compressor will keep your tires, including the spare, pumped for optimal performance, and can keep bike tires, balls, camping beds and pool / beach inflatables in top form, as well.

Part No.	Description	Price
235441EX	Wrench with air compressor .... *Was ~~$24.95~~*	$19.95

Fresh air in the worst traffic.

If you think the air is bad outside during your commute, it could be even worse inside your car. With the windows rolled up, your in-car environment may be concentrating the pollutants. Chances are, you and your car need a healthy shot of pure, fresh ionized air. Simply plug this compact, self-contained device into your cigarette lighter and it goes to work immediately, removing dust, cigarette smoke, odors and even airborne bacteria to create a clearer, healthier indoor atmosphere. Order one today, and see how billions of negative ions can have a positive effect on you and your health.

Part No.	Description	Price
219352EX	Auto air purifier & ionizer	$19.95

Expect the unexpected with this road-ready kit.

Bright safety flashers easily alert other drivers.

Don't leave home without it!

One of these kits should have a place in every vehicle you own. In a road emergency, you'll have a powerful flashlight and a full set of high-quality tools, all ready for repair work. Plus, bright safety flashers will let other drivers know to steer clear, and alert emergency vehicles to your location. Plug-in powered by your car's 12-volt battery, or by a back-up set of C batteries .

Part No.	Description	Price
235109EX	Auto emergency kit .....*Was ~~$19.95~~*	$13.95

Get accurate weather and navigational information and arrive faster without unpleasant surprises.

Mounts easily to your car windshield.

Never get lost or surprised by a storm again.

Mount this precision compass and weather station on your car windshield and hit the road knowing not just where you're heading, but what you're heading into. The holographic LCD panel displays your direction, inside and outside temperature, barometric pressure, altitude, and a weather forecast. If outside temperatures dip to 35°, a flashing "Ice Alert" warns you of skid conditions. Set a bearing point, and the compass warns if you veer off-course. Activates and deactivates automatically. Backlight turns on automatically after dark. Includes suction mounting bracket, 3V long-life lithium battery and 12V DC adapter (for emergency use with car lighter outlet). 2-year manufacturer's warranty.

Part No.	Description	*Was ~~$119.95~~* Price
222316EX	Compass & weather forecaster ...	$99.95

Military-precision compass goes from traffic to trail automatically.

Go from backroads to backpacking with confidence. The All-in-One Compass switches modes automatically.

Ingenious design makes the All-in-One Compass two precision navigational instruments in one. In the cradle, it reads direction vertically for driving. Lifted out and held flat, it automatically switches to handheld mode for hiking. Holographic display is easy to read in bright or low light. Pushbutton backlight lets you read in pitch blackness. Runs on two AAA batteries or 12-volt car adapter, both included. Auto turn-off conserves battery life.

Part No.	Description	Size	Weight	Price
222324EX	Hikers and drivers all-in-one compass	2.5"L x 2.5"W x 1"H	0.72 lbs.	*Was ~~$54.94~~* $44.95

Water alarm prevents costly damage.

This handy little unit alerts users within hearing range when water has reached it's desired level. Be prepared for leaks or overflows in the bath, kitchen, laundry, computer room, just about anywhere there is a potential for leaks. Just place the sensor at the lowest point of the surface where water collects. The alarm will sound if water bridges between the two contacts. Ideal for unattended filling of tubs, pools and / or spas. Use the suction cup to attach the sensor to any smooth vertical surface. The buzzer will sound when the water reaches both metal contacts on the sensor.

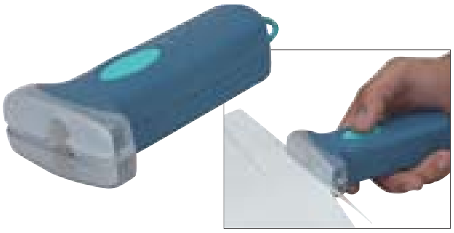
Part No.	Description	Price
239370EX	Water leak alarm	$12.99

Writes anywhere, even underwater!

Durable and lightweight, our Fisher Space Pens are on all NASA space flights. They perform in any condition —upside down, at any angle, in extreme temperatures, on carbonless paper, or even underwater! The Apollo XI Coin and Etched Pen Setcommemorates our first manned lunar landing —a Fisher Space Pen was there.The Triple Action Pen allows your choice of black or red ink, or a PDA stylus; all in one. Use your own pen to write anywhere using Fisher Space Pen Refills. Mont Blanc and Cross pens use the specific refills listed. Roller balls by Parker, Waterman, Pelikan, Lamy, Rotring, and Sheaffer use Fisher Space Pen Refills with the included adapters.

Part No.	Description	Price
219395EX	Chrome shuttle pen......... Was ~~$19.99~~	$14.95
219408EX	Triple action pen .... Was ~~$27.99~~	19.95
219387EX	Apollo 11 pen & coin ..... Was ~~$49.95~~	39.95
Pen Refills		
219483EX	Mont Blanc med. black..........................	2.89
219475EX	Mont Blanc med. blue	2.89
219467EX	Cross medium black	2.89
219459EX	Cross medium blue	2.89
219441EX	Fisher space med. black	2.89
219416EX	Fisher space med. blue	3.49
219424EX	Fisher space med. red	2.89
219432EX	Fisher space med. green	2.89

Zip open your mail with the greatest of ease!



Open your important correspondence in style with this handy little cordless wonder. Paper cuts and torn contents are a thing of the past; just place the edge of each envelope in the self-feeding slot, and your letters of all shapes and sizes glide through to be effortlessly, professionally and safely opened. No efficient desk should be without one!

Part No.	Description	Price
235475EX	Handheld letter opener	$9.95

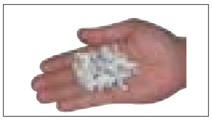
Bargain-priced night-time visibility from First Alert™

Emits a soft amber glow

Now you can get four night lights for under ten bucks! These handy little lights do one important thing, and they do it very well: they come on when it's dark, and go off when it's not, safely and reliably. Just plug them into outlets in hallways, your workshop or the children's rooms and you'll always have light, right where you need it. At this price, you can enjoy "night vision" throughout your home!

Part No.	Description	Price
235037EX	4 automatic night lights .... Was ~~$9.95~~	$5.95

Fellowes Premium Confetti-Cut Personal Shredder



Shredded pieces (Confetti-cut)

When it's time to discard sensitive memos, bank statements, accounting records or other confidential business materials, you want to rest assured that they're gone for good. The PS60C-2 features faster throughput, greater capacity and a finer cut so your documents will disappear in short order. Do not let prying eyes poach business records. Let this model's confetti-cutting power turn that stack of confidential paperwork into a handful of scrambled dregs with shredded ease.

Part No.	Description	Was ~~$49.95~~ Price
219176EX	Confetti-cut shredder (refurbished)	$39.95

Fellowes Strip-Cut Shredder

Shredded pieces (Strip-cut)

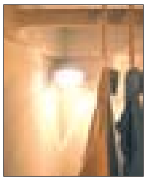
Protect yourself from prying eyes and "dumpster divers" with a personal shredder that's packed with features. The P500-2 is designed to go anywhere you need it. Auto-start and stop means you can feed in up to 7 sheets at a time (staples, paper clips and all!) with one-handed ease; no fumbling for a switch. And at this price, you can turn every wastebasket in your home or office into a maximum security receptacle.

Part No.	Description	Price
219184EX	Personal strip-cut shredder	$9.95

Find more products @
www.Jameco.com

Trouble free corner touch lights right where you need it!

Drawer



Closet

Banish dark corners in your drawers, closets or workshop where you always need more light. This set of three corner-ready touch lights mount easily, and they're cordless, so they're all help and no hassle. Just click-on, click-off, and you'll always be able to see what you've been missing! Four AA batteries (not included) provide many hours of light.

Part No.	Description		1	4
239345EX	Three corner touch lights	Was ~~$12.95~~	$10.49	$9.45

Part No.	Description	Price
249210EX	AA batteries (4-pack)	$2.56

Ordering Information

PAYMENT OPTIONS

Credit Card/Check Cards

We accept VISA, MasterCard, American Express and Discover. No surcharge. Your account will not be charged until your order is shipped. When ordering, please advise name on card and credit card billing address.

Check or Money Order

You may pay by check or money order in U.S. funds, drawn on a U.S. bank.

Open Account

It is easy to open an account with Jameco. Contact us for obtaining open account status.

C.O.D.

Personal checks are accepted. Please add $7.00 per C.O.D. order. Include the name and address of your bank and your account number.

International Orders

All foreign orders must be prepaid with a credit card (see approved credit cards above), wire transfer, traveler's check, cashier's check or money order drawn on a U.S. bank in U.S. funds only. Please do not send cash. Jameco cannot accept letters of credit as a form of payment.
E-mail: international@Jameco.com.

SERVICES

30-Day Money Back Guarantee

If for any reason you are not completely satisfied with your purchase, simply return the product, in its original packaging, within 30 days for a refund, credit or exchange. Parts returned due to customer ordering error may be subject to a restock fee. Call our customer service department at 1-800-536-4316 or visit www.Jameco.com to request an RMA#. It should appear clearly on the outside of the box. Returns without an RMA# will not be accepted, and no freight collect packages will be accepted. A completed Jameco customer service form, located on the back of the packing slip, must be included with your return. We're sorry, but books, kits, software, grab bags and special orders cannot be returned. Special orders consist of products sold at an OEM quantity discount or products not listed in the Jameco catalog.

Jameco Warranty

Jameco warrants all merchandise against defects in material or workmanship for a period of 90 days from the original purchase date unless otherwise stated in writing by Jameco. If Jameco receives the product considered to be defective within this warranty period and the product is determined to be defective, Jameco will, at its sole option and discretion, either repair or replace the product. The foregoing is your sole and exclusive remedy and states Jameco's entire liability arising out of this warranty. [However, Jameco will transfer to customer whatever transferable warranties and indemnities Jameco receives from the manufacturer of the products. Any claims arising from such manufacturer's warranties shall be the sole responsibility of the manufacturer and not of Jameco.] Moreover, Jameco's limited warranty is void if the damage or defect has resulted from improper customer assembly, failure by customer to follow instruction, product modification, negligent or improper operation, accident, abuse or misapplication. Products returned to Jameco pursuant to this warranty must be returned to Jameco prepaid.

No Other Warranties

The limited warranty above is exclusive and in lieu of all other conditions and warranties for the products and documentation. Jameco makes no other conditions or warranties, express, implied, statutory or otherwise, and expressly disclaims all other conditions and warranties, including but not limited to, implied conditions or warranties of merchantability, fitness for a particular purpose, and non-infringement of the products.

Limitation of Liability

Jameco shall not be liable for any incidental, special or consequential damages for breach of any warranty, expressed or implied, directly or indirectly arising out of Jameco's sale of merchandise, including any failure to deliver any merchandise, or arising out of customer's installation or use, whether proper or improper, of the product, separately or in combination with other equipment, or from any other cause. Products sold by Jameco are not authorized for use as critical components in life support devices or systems.

5 EASY WAYS TO ORDER

Telephone: Toll-Free 24 hours a day!
1·800·455·6119
International orders,
call 1·650·592·8097

24-hour Ordering Hotline!

Toll-Free FAX:
US / Canada: 1·800·237·6948
Brazil: 000·817·455·6119
Columbia: 980·9·136748
Indonesia: 1·803·015·237·6948
Mexico: 001·800·593·1449
New Zealand: 080·044·0470
Other Countries: 1·650·592·2503

Online: http://www.Jameco.com
On-line catalog! Our complete offering of over 11,000 products searchable on the Jameco website!

Mail: E-mail your order to:
sales@Jameco.com or fill out the order form (previous page) and mail it to us.

In-Person: Visit Jameco at 1355 Shoreway Rd., Belmont, CA. Will-call office hours are 8:00 a.m.– 5:00 p.m. Monday – Friday.

CONTACT INFORMATION

The following services are available at 1-650-592-8097 Monday – Friday from 6:30 a.m. – 5:00 p.m. PST or via e-mail:

- International Sales (international@Jameco.com)
- Customer Service (custservice@Jameco.com)
- Credit Department (credit@Jameco.com)
- Technical Support (tech@Jameco.com)

Toll-Free Hotline!

Please call us at 1-800-455-6119.

A Nuestros Clientes en

La Republica Mexicana: Si usted requiere tratar en Espanol y adquirir nuestros productos facturados L.A.B. Cd. De Mexico (libres de Aduana) y enviados al interior del pais via Estafeta, contacte con nuestro Representante y Distribuidor exclusivo;

Proyeccion Electronica de Mexico, S.A. de C.V. a: General E-mail: info@proyel.com
Quote E-mail: jmc@proyel.com
Phone / Fax: 01-(55) 5273-5029
Direccion:
Benjamin Franklin No. 166 Desp. 1
Col. Escandon Deleg. Miguel Hidalgo
C.P. 11800 Mexico, D.F.

Los demas paises de Latinoamerica: Ya pronto tendremos servicio en su Region. Si usted tiene alguna duda o comentario respecto a los servicios de Jameco, contacte con la empresa arriba mencionada en la Ciudad de Mexico, ellos le pueden ayudar.

PRICES

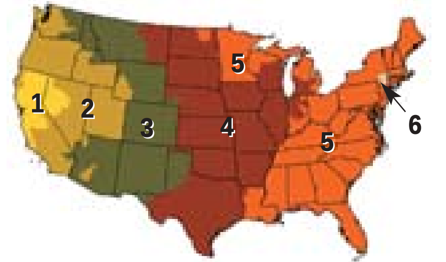
Prices are effective 7-12-04. In the unlikely event you find a lower price in a printed catalog or magazine, simply call us with the details at the time of purchase. We'll match any price above our cost. Prices and discounts are subject to change without notice. We are not responsible for any typographical errors in this catalog. Photos are representative; product appearance may vary.

ONLINE INFORMATION

Get answers to frequently asked questions on the Jameco website at:

http://www.Jameco.com

SHIPPING INFORMATION



Guaranteed Delivery Time for UPS Ground (Business Days)

① day
② days
③ days
④ days
⑤ days
⑥ days

Orders received Mon.-Fri. by 6:00 p.m. Eastern Standard Time will be shipped the same day. Orders received Saturday and Sunday will ship the following Monday (except on holidays). If we are unable to fill your order on the day received, we will send you a gift certificate worth $5.00 towards your next Jameco purchase. This offer does not apply to orders waiting for credit approval or backordered items.

Options and Rates*

Shipping delivery times are based on working days.

Ground Service
Up to 6 working days for commercial address (up to 9 working days for residential). Guaranteed delivery times may vary depending on zip code. $6.95 for 1st 2 lbs.; $0.79 for each additional lb.

2-Day Air Service
$12.49 for 1st 2 lbs.; $1.59 for each additional lb.

Next Day Air Service

- $22.95 for AM delivery for 1st 2 lbs.; $1.99 for each additional lb.
- $16.95 for afternoon delivery for 1st 2 lbs.; $1.99 for each additional lb.

Priority Mail (USPS)
$4.95 for 1st lb.; $1.99 for each additional lb. Order must be placed before 5:00 p.m. Eastern Standard Time to ship same day.
Jameco reserves the right to rebill shipping surcharges for customer misaddressed packages

***** The above rates apply to single box shipments that are less than 50 lbs. Please call for shipping quote on packages greater than 50 lbs.

International Shipping & Handling

Shipping is via courier or postal service, depending on your preference, insurance availability, and the size and weight of your package. Jameco will apply actual shipping charges with a nominal handling charge on all foreign orders. For mail-in customers, please include 25% for shipping charges or call for a shipping quotation. All returns that meet postal requirements must be sent prepaid via air parcel post. All courier shipments to Canada and Mexico require a certificate of origin. Jameco will provide a certificate of origin for a $25 processing fee.

POLICIES

Confirming Orders

Please do not send confirming orders. If company policy necessitates a confirming order, please mark "CONFIRMING" boldly on the first page of the order.

No Minimum Order

A $5.00 processing fee will be added to orders under $20.00.

See previous page for Ordering Information

Fax 1•800•237•6948 Order 24 hours/7 days a week!

Jameco, 1355 Shoreway Road, Belmont, CA 94002 Call: 1·800·455·6119 International TEL: 1·650·592·8097 FAX: 1·650·592·2503

1 Ordered By: (We will ship to this address unless you enter #2).

Customer No. ________________ **VIP No.** ________________
(see back cover)

Company

Name of Requisitioner Title

Name of Purchasing Agent Title

Street Address/PO Box Number

City State Zip Code

Contact information (please provide all information and check method preferred)

( )
Daytime phone number - Required for Credit Card Orders

( )
Fax Number

E-mail Address

☐ Please check this box if you would not like to receive special offers via e-mail from Jameco.

2 Ship To: (Only required if different)

Company

Name Title

Street Address/PO Box Number

City State Zip Code

3 Method of Payment:

☐ Prepaid (check enclosed) ☐ C.O.D. ($7.00 service charge)

☐ Net 30 Days (Account must be previously established. Authorized P.O. # required.)

PURCHASE ORDER NO.: ________________

☐ Credit Card

VISA MC AMEX DISCOVER

Credit Card users only:

Credit Card Number ☐☐☐☐ ☐☐☐☐ ☐☐☐☐ ☐☐☐☐

Exp. Date: Month ☐☐ Year ☐☐☐☐ Name on card ________________

Billing Address Street/PO Box City/State/Zip

4

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION	PAGE NO.	WEIGHT (LBS.)	UNIT PRICE	TOTAL
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
				TOTAL WEIGHT		SUB-TOTAL	

Add $5.00 processing fee on orders under $20	
Please Add Applicable Sales Tax (California Only)	
Shipping (See Item 5)	
C.O.D. (add $7.00)	
Canada and Mexico Certificate of Origin ($25)	
Credit Memo (please attach)	–
TOTAL	

5 Please Check Shipping Method Below:

AIRBORNE EXPRESS ups FedEx Federal Express (USPS)

☐ **Priority Mail (USPS)** ....$4.95 for 1st lb., $1.99 for each additional lb.

☐ **Ground** ....$6.95 for 1st 2 lbs., $0.79 for each additional lb.

☐ **2 Day Air Service** ....$12.49 for 1st 2 lbs., $1.59 for each additional lb.

☐ **Next Day Air Service (AM delivery)**.........................$22.95 for 1st 2 lbs., $1.99 for each additional lb.

☐ **Next Day Air Service (PM delivery)**.........................$16.95 for 1st 2 lbs., $1.99 for each additional lb.

☐ **Foreign Shipment via Air Parcel Post** ....Shipping approximately 25% of order total. Excess fees will be refunded. Additional shipping methods available

Some restrictions may apply. See order information on previous page for other shipping methods and conditions of sale. Shipping rate is based on a single package shipment.

6 JAMECO® *thanks you for your order!*

FOR OFFICE USE ONLY
/

Clip an animated billboard on your shirt!

The FlashTag is an eye-catching, customizable name tag with scrolling LED messaging that you can program yourself. The FlashTag is perfect for retailers / sales people, restaurants, trade shows, fund raising events, and the list goes on and on. Approximately the size of a credit card, the FlashTag has 7 different speed settings, scrolls from left to right and it's bright red LEDs will ensure your messages are noticed, especially in a crowd.

Magnetic clip makes it easy to attach to your shirt or blouse!

Part No.	Description	Price
261673EX	Scrolling message name tag w/ serial programmer	$69.95
262060EX	Additional name tag	55.95

Super hearing at a super-low price!

You'll be absolutely amazed at the distant sounds you can pick up with the Big Ear! Listen in on dugout conversations at baseball games, tune into bird calls like you've never heard them before, or play "007" spy games. While there's no limit to the fun you'll have, there is a built-in loud-noise limiter to protect your ears.

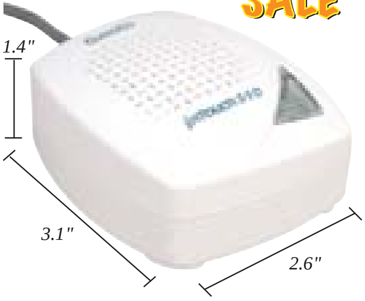
Tune into nature.

Get the scoop on the game.

Part No.	Description	Price
262393EX	Big ear parabolic microphone	$24.95

Seamlessly interrupt your modem to take calls.

SALE



Bright LEDs immediately alert you to an incoming caller. Just pick up the phone, and you're seamlessly connected to your friend or colleague. When your conversation is finished, simply hang up and your modem takes over to resume your online session. Works with fax machines too! In addition to saving missed calls, this convenient little box will save you money, too. No expensive additional line is needed, and you can avoid annoying monthly charges for similar services from your internet service provider. Installation is a breeze. An A / C adaptor is included for power, and with your existing call-waiting service, you'll be ready to attain a new level of peace of mind, right out of the box.

Part No.	Description	Price
234974EX	Internet call waiting alert Was ~~$44.95~~	$34.95

Three of the most useful features you'll ever add to your phone line!

Reduce calls from pesky telemarketers.

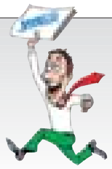
Want to pick up important incoming calls without disrupting your modem connection? Or do you want to avoid picking up annoying calls from telemarketers or fax machines? This handy switch emits tones making pesky telemarketers think you've disconnected your phone line and routes fax calls directly to your fax machine without allowing your phone to ring.

And in addition, you can pick up calls while your modem is on line without needing a second phone line!

Part No.	Description	Price
242780EX	Automatic fax switch	$99.95

Refer a Friend

Are you tired of loaning your latest copy of the Jameco catalog to a friend or business associate? If they can't take a hint just visit our website at: **www.Jameco.com/CatReferral**. *We'd be happy to send them a catalog too!*

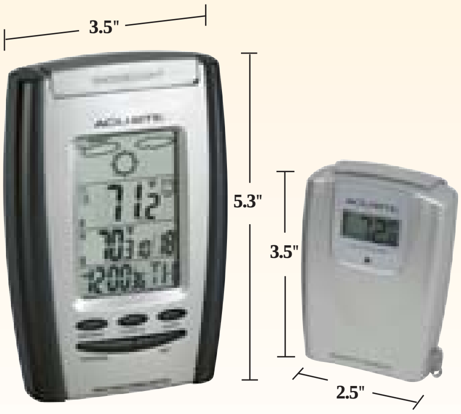


Wireless weather station does everything but provide a scarf or umbrella.

This multi-function digital weather station is a great gift for the weatherwatcher who likes to know everything— including the future and the temperature "down below." It's an indoor / outdoor wireless thermometer, graphical weather forecaster, lighted alarm clock with snooze alarm, day / date calendar, audible temperature alarm. It's even a pool and pond thermometer.

The outdoor sensor transmits up to 100' through walls and fences. Slide the sensor out of its bracket, plug in the 10' waterproof probe, and check the temperature of your pool or pond. A flashing storm alert warns of severe weather ahead. Programmable audible high / low temperature alerts help prevent household catastrophes. Readings displayed in C° or F°. Base uses 2 AA batteries (included). Remote uses 2 AAA batteries (included).

This weather station can wake you when you're sleeping, warn you when temperatures reach danger zones, and tell you when your tropical fish are shivering.



Weather Station ***Remote***

Part No.	Description	Price
227117EX	Wireless weather station	$49.95

Screen your calls without leaving your chair!

Just like an ordinary Caller-ID box, this next-generation device will announce the number (in English or Spanish!) of the incoming call in a clear, pleasant voice. You can even record up to 50 custom announcements for specific callers, along with two personalized greetings for your special friends or loved ones who call often.

Part No.	Description	Price
234966EX	Voice announce caller ID box Was ~~$74.95~~	$57.95

Find your way with this digital compass and stopwatch combo. SALE

This amazing digital compass will point you in the direction of high adventure. With a 2º of accuracy. It's smart enough to know exactly where you're heading, anywhere in the world, anytime. And speaking of time, an integrated stopwatch, timer and 12/24 hour clock are also included in this compact, water-resistant little wonder. As a primary guide or as a backup to your GPS, you'd be lost without it!

Part No.	Description	Price
236793EX	Digital compass & stopwatch	$19.95

Advanced Toddler Robot Kit

NEW

Walking robots have mechanical and software interdependencies that require in-depth examples and explanation. The Advanced Robotics text is an introduction to the Toddler robot's basic movements. Students using the Toddler robot will learn advanced embedded programming with BASIC, efficient code development, sensor feedback, and general control. Because of the number of possible movements, we consider the Toddler to be appropriate for those aged 14 and above.

Includes: 155-page Advanced Robotics text in the Stamps in Class style and the 351-page BASIC Stamp Manual

Part No.	Parallax No.	1	10
282837EX	27311	$248.95	$236.49

More @ www.Jameco.com

Retro-style record player with 21st century technology! NEW

Dust off those old LPs and 45s, and get ready for a nostalgic trip to entertainment yesteryear! Lift the cover and spin your vinyl, or pop the top and play your favorite CDs in the same self-contained, stylish table-top package. Plus, a sensitive AM/FM tuner, complete with old-school controls, pulls in your favorite talk and music stations. Makes a great gift for the "cat's meow" in your life, or an elegant addition to any room's décor!

Part No.	Description	Price
285472EX	Turntable CD/record player w/ tuner	$169.95

Teach kids the history of "instant messaging", circa 1844!

NEW

Junior scientists can walk in the footsteps of Samuel Morse, inventor of the telegraph. His nifty invention changed the 19th century as much as the telephone did the 20th century and as the internet is changing the 21st. With this kit, they'll wind coils (with the included arbor, to ensure success), tinker with electromagnetism and magnetic fields, build a buzzer and a relay, dabble in Morse Code and learn about the scientific methods used by great inventors.And when they're done, they'll be the proud owners of a working model telegraph system! Superb documentation leads builders through the entire educational experience, step-by-step.

Attention teachers and group leaders: Multi-packs of this kit are available for classroom use, complete with a valuable teacher's guide. Call today for details and special pricing!

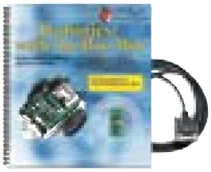
Part No.	Description	Kit Pieces	Difficulty Level	Price
285624EX	Telegraph kit	15	Beginner	$54.95

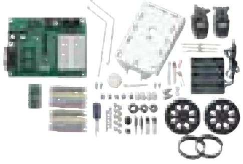
Magnify your interest in optics with these limited-supply lenses! NEW

These high-quality items were originally manufactured for Vivitar®, one of the biggest names in premium lenses. These pieces range from 18mm up to 80mm, including one with an optical scale etched right on the glass. Experiment with different combinations and applications, research light amplification, build a magnifier, a projector, or a camera obscura! In short, spend some quality time with your interest in optics, and you'll soon be learning (or teaching) at the speed of light! Order now, as quantities are limited.

Part No.	Description	Dioptic	Material	Price
285739EX	Plano, 27.9mm	16.5x	Glass	$1.95
285798EX	Plano, 80.2mm	5x	Acrylic	2.95
285721EX	Double, 18.9mm	20x	Glass	1.79
285763EX	Double, 78.0mm	15x	Glass	3.95
285712EX	Optical scale, 18.0mm	—	Glass	1.95

Boe-Bot Full Kit





NEW

Now with Robotics text v2.0! The new text includes 41 activities for the Boe-Bot and PBASIC 2.5 source code support. The Boe-Bot's flexibility stems from the fact that it's a rolling Board of Education. The Board of Education (and BS2-IC) may be removed to be used as your platform for the other *Stamps in Class* curriculum. The robot may be programmed to follow a line, solve a maze, follow light, or communicate with another robot by following the instruction of the Robotics text. Requires 4AA batteries (not included).

Part No.	Parallax No.	1	10
282933EX	28132	$228.95	$217.49

Basic Analog & Digital Parts & Text V1.2

NEW

Covers the essentials of 8-bit A/D & D/A conversion using a BASIC Stamp. Introduces PBASIC commands for A/D conversion with resistor/capacitor circuits, interfacing an ADC0831 8-bit A/D converter, scaling analog outputs into meaningful digital values, analyzing time-varying signals and using PWM as analog output.

Part No.	Parallax No.	1	10
282950EX	28155	$43.95	$39.45

Flashing Pumpkin Kit.

No need to carve a pumpkin this Halloween! Simply solder the 25 bright-colored LEDs onto the pumpkin-shaped circuit board and you have a flashing pumpkin. A perfect display for the office or home window, or for children to bring along during trick or treat.

- 25 bright LEDs
- Random flash effect simulates flickering candle
- 1 extra high intensity yellow LED illuminates the pumpkin face
- On/Off switch
- Experience level: intermediate

71 Piece Kit

Power requirements: 9V battery

Part No.	Description	Size	Price
236081EX	Flashing pumpkin kit	3.2"H x 4.0"W x 1.3"D	**$9.99**

StealthTenna™ Antenna

Optimized for receiving HDTV / Digital and current analog signals, the StealthTenna™ offers the performance and aesthetics consumers demand for their ever-changing reception needs. Antenna assembles easily for do-it-yourself installation. The StealthTenna™ is the perfect complement to DBS satellite systems for receiving local broadcast not offered from satellite. The antenna mounts under eaves with it's rear-mounting feature or may be mounted in traditional roof, chimney, wall and attic configurations. For additional signal gain, StealthTenna™ can be equipped with an optional amplifier (listed below) that fits easily inside the antenna housing. The amplifier utilizes separate circuitry for VHF and UHF amplification, providing a gain of 15 dB. Mounts inside antenna housing and has split band amplification.

- Signal gain: 15dB UHF; 15dB VHF/FM
- Power required: 12 to 22VDC

See pages 62 & 63 for our complete selection of Channel Master products!

NEW

Part No.	Prod. No.	Description	Price
285843EX	3010	StealthTenna™	**$68.95**
285982EX	3038	Optional amp.	**48.95**

It's a Summer Extravaganza!

We have lowered prices, offering you savings of 15-46%. Be sure to thumb through our catalog and look for these specially marked prices.

Kids of all ages love to learn about hovercraft!

NEW

25 Piece Kit

More science kits are on the way in upcoming catalogs, so watch this space for new offerings.

This super kit is fun to build and a "blast" to run, but there's a bonus: education! Through the kit's curriculum (available online), budding scientists and engineers will learn principles of electricity and circuits, propellers, conversion of energy and other core concepts. And at the end of the learning process, they'll have a cool, battery-powered hovering vehicle that can glide over any smooth surface, even water!

Part No.	Description	Price
285641EX	Hovercraft kit	**$21.79**

Electromagnetic Radiation Meter

Best Seller

Electromagnetic radiation is all around us, some of it not so friendly; but until now there's never been an easier, more portable device to detect and measure it. Whether you're concerned about your kid's playground near the power station, the laboratory, microwave oven emissions, or searching for clandestine surveillance devices; the ZAP Checker can give you a new measure of peace of mind. Its portability and multiple settings allow you to search out EMR whenever and wherever you want, from your home or office environments to hotel suites and conference rooms. Range is from 10 MHz to 4.5GHz.

Part No.	Description	Price
217808EX	ZAP checker	**$129.95**

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